

GenCore version 5.1.5
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 5, 2003, 18:05:53 ; Search time 1931 Seconds
(without alignments)
6118.974 Million cell updates/sec

Title: US-09-829-481-3
Perfect score: 406
Sequence: 1 cttctactacaatcactaagt.....aaaaaaaaaaaaaaaaaaaaa 406

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

GenEmbl :

- 1: gb.ba.*
- 2: gb.htg.*
- 3: gb.in.*
- 4: gb.om.*
- 5: gb.ov.*
- 6: gb.pat.*
- 7: gb.ph.*
- 8: gb.pl.*
- 9: gb.pr.*
- 10: gb.ro.*
- 11: gb.sts.*
- 12: gb.sy.*
- 13: gb.un.*
- 14: gb.vi.*
- 15: em.ba.*
- 16: em.fun.*
- 17: em.hum.*
- 18: em.in.*
- 19: em.mu.*
- 20: em.om.*
- 21: em.or.*
- 22: em.ov.*
- 23: em.pat.*
- 24: em.ph.*
- 25: em.pl.*
- 26: em.ro.*
- 27: em.sts.*
- 28: em.un.*
- 29: em.vi.*
- 30: em.htg_hum.*
- 31: em.htg_inv.*
- 32: em.htg_other.*
- 33: em.htg_mus.*
- 34: em.htg_pln.*
- 35: em.htg_rod.*
- 36: em.htg_mam.*
- 37: em.htg_vrt.*
- 38: em_sy.*
- 39: em.htgo_hum.*
- 40: em.htgo_mus.*
- 41: em_htgo_other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
C 1	58	14.3	4900	2	AC115591 Dictyoste
C 2	56.4	13.9	1271	9	AF090934 Homo sapi
C 3	56.2	13.8	2352	8	AF090934 Homo sapi
C 4	56.2	13.8	156533	2	ATH304841 Arabidops
C 5	56	13.8	204557	10	AL669851 Mouse DNA
C 6	56	13.8	206345	2	AL844864 Mus muscu
C 7	55.8	13.7	797	10	BC010766 Mus muscu
C 8	55.8	13.7	3543	9	AL832227 Homo sapi
C 9	55.8	13.7	17294	6	AX345888 Sequence
C 10	55.6	13.7	1652	3	AF151644 Caenorhab
C 11	55.6	13.7	1717	3	AF121632 Drosophill
C 12	55.4	13.6	3024	9	AF146568 Homo sapi
C 13	55.4	13.6	27785	2	AC116978 Dictyoste
C 14	55	13.5	1432	3	AY069596 Drosophill
C 15	55	13.5	1805	3	L05617 Dictyosteli
C 16	55	13.5	3152	9	BC034961 Homo sapi
C 17	55	13.5	4003	9	AL832962 Homo sapi
C 18	55	13.5	15903	2	AC115612 Dictyoste
C 19	55	13.5	160759	2	AC117082 Dictyoste
C 20	54.8	13.5	1356	10	BC034886 Mus muscu
C 21	54.8	13.5	93491	2	AC116967 Dictyoste
C 22	54.8	13.5	209800	2	AC121580 Mus muscu
C 23	54.6	13.4	425	6	AX284846 Sequence
C 24	54.6	13.4	1451	17	AF118083 Homo sapi
C 25	54.6	13.4	2459	3	AY113249 Drosophill
C 26	54.6	13.4	113880	3	PFMAL3P4 Plasmodi
C 27	54.6	13.4	160759	2	AC117082 Dictyoste
C 28	54.6	13.4	171187	2	AC116960 Dictyoste
C 29	54.4	13.4	1118	9	BC012595 Homo sapi
C 30	54.4	13.4	1577	9	BC011971 Homo sapi
C 31	54.4	13.4	1685	9	AK000137 Homo sapi
C 32	54.4	13.4	2097	3	AB079606 Dictyoste
C 33	54.4	13.4	2789	10	BC026672 Mus muscu
C 34	54.4	13.4	3440	9	BC013609 Homo sapi
C 35	54.4	13.4	7028	9	AL832207 Homo sapi
C 36	54.2	13.3	785	8	AF257780 Populus t
C 37	54.2	13.3	1327	6	AX306545 Sequence
C 38	54.2	13.3	1641	9	BC010739 Homo sapi
C 39	54	13.3	231807	2	AC131100 Mus muscu
C 40	54	13.3	283086	2	AC124723 Mus muscu
C 41	53.8	13.3	1588	17	AF116610 Homo sapi
C 42	53.8	13.3	1661	9	BC025753 Homo sapi
C 43	53.8	13.3	2005	9	AL832119 Homo sapi
C 44	53.8	13.3	6290	6	AX345949 Sequence
C 45	53.8	13.3	20622	2	AC115609 Dictyoste

ALIGNMENTS

RESULT 1
AC115591/c
LOCUS AC115591 4900 bp DNA linear HTG 21-MAR-2002
DEFINITION Dictyostellium discoideum chromosome 2 map 4713821-4718719 strain
AX4, *** SEQUENCING IN PROGRESS ***, in ordered pieces.
ACCESSION AC115591.1 GI:19569972
VERSION HTG: HTGS_PHASE2
KEYWORDS Dictyostellium discoideum.
SOURCE Dictyostellium discoideum
ORGANISM Eukaryota; Mycetozoa; Dictyostellida; Dictyostellium.
REFERENCE 1 (bases 1 to 4900)
AUTHORS Gloeckner,G., Eichinger,L., Szafranski,K., Pachebat,J., Dear,P.,
Lehmann,R., Baumgart,C., Parra,G., April,J.F., Guigo,R., Kumpf,K.,
Tunggal,B., Cox,E., Quail,M.A., Platzer,M., Rosenthal,A. and

Db	2564	ATTAAATTTAAATAAAAAAAAAAAAAAAAAATTGAAAAA	2523
RESULT 2			
AF090934			
LOCUS		1271 bp	linear
DEFINITION			PRI 12-JAN-2000
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
REFERENCE			
AUTHORS			

REFERENCE	2. P (bases 1 to 1271)
AUTHORS	Yu, Y., Zhang, C., Luo, L., Ouyang, S., Zhang, S., Li, W., Wu, J., Zhou, S., Liu, M. and He, F.
TITLE	Direct Submission
JOURNAL	Submitted (10-SEP-1998) Dept. of Experimental Hematology, Beijing Institute of Radiation Medicine, 27 Taiping RD, Beijing 100850, P.R.China
FEATURES	Location/Qualifiers
source	1..1271
	/organism="Homo sapiens"
	/db_xref="taxon:9606"
	/clone="HQ0518"
	/tissue_type="liver"
	/dev_stage="fetus"
	233..439
CDS	/codon_start=1
	/product="PRO0518"
	/protein_id="AAP2048.1"
	/db_xref="GI:6690234"
	/translation="MQRSDRVNVKFTPRFWSRKHGTGGSEMRHVQAPMARQAP PVLPWTVNDHPHPEKPVSRPQNT"
BASE COUNT	477 a 266 c 230 g 298 t
ORIGIN	

BASE COUNT	477 a	266 c	230 g	298 t	
ORIGIN					
Query Match					13.9%; Score 56.4; DB 9; Length 1271;
Best Local Similarity					61.6%; Pred. No. 0.53;
Matches 90; Conservative					0; Mismatches 56; Indels 0; Gaps 0;
QY	261	GTUUTTTATTGAATATCGTCAGTTTCCCAATTAAGCTCAATTCGAGCCATACTGAAATAATTT	320		
Db	990	GTAATTAAAGTGCACCTCTCTATTCTAATAGATGACTTTCCGAAAGTCAGATTGTGTA	1049		
QY	321	TGTPAATCTTAACACAGATGCAATAGTTTAAATAAAGTTTATACCTTTTACCTTTTAAAAA	380		
Db	1050	TGTTCTGGGCTTTTAAAGGTAAATATATAATTAATTTTATCAACTTAATCTAAAAA	1109		
QY	381	AAAAAAAAAAAAAAAAAAAAAAAAAAAA	406		
Db	1110	AAAAAAAAAAAAAAAAAAAAAAAAAAAA	1135		

RESULT 3
 ATH304841
 LOCUS
 DEFINITION
 ATH304841 2352 bp mRNA linear PLN 23-DEC-2000
 Arabidopsis thaliana for dynamin-like protein ADLP1 (dlp1
 gene).
 ACCESSION AJ304841
 VERSION AJ304841.1 GI:11991505
 KEYWORDS dlp1 gene; dynamin-like protein DLP1.
 SOURCE thale cress.
 ORGANISM Arabidopsis thaliana
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

REFERENCE	Rosidae: euroids II: Brassicales; Brassicaceae; Arabidopsis.	TITLE	Sequence and Analysis of Chromosome 2 of Dictyostelium
AUTHORS	1 (bases 1 to 2352)	JOURNAL	Unpublished
TITLE	Jasper,F. and Menzel,D.	REMARK	The Dictyostelium Genome Sequencing Consortium
JOURNAL	Identification of a subgroup of closely related dynamin-like	REFERENCE	2 (bases 1 to 156533)
REFERENCE	proteins in Arabidopsis thaliana	AUTHORS	Baumgart,C.
AUTHORS	Unpublished	TITLE	Direct Submission
TITLE	Jasper,F.	JOURNAL	Submitted (06-APR-2002) Genome Analysis, Institute of Molecular
JOURNAL	2 (bases 1 to 2352)	REMARK	Biotechnology, Beutenbergstr. 11, Jena 07745, Germany
REFERENCE	Submitted (21-DEC-2000) Jasper F., Zellbiologie der Pflanzen,	COMMENT	CDS predictions from GeneID may contain errors. Further Information
AUTHORS	Botanisches Institut, Universitaet Bonn, Kirschallee 1, Bonn,		is available from IMB Jena, Department of Genome Analysis
TITLE	53115, GERMANY		(http://genome.imb-jena.de/dictyostelium/)
JOURNAL			and the University Cologne, Institute for Biochemistry I
FEATURES	Location/Qualifiers		(http://www.uni-koeln.de/dictyostelium/project.shtml
source	1. .2352		Funding
gene	/organism="Arabidopsis thaliana"		Agency : Deutsche Forschungsgemeinschaft (DFG).
CDS	/cultivar="Landsberg erecta"		* NOTE: This is a 'working draft' sequence.
	/db_xref="taxon:3702"		* This sequence will be replaced
	/tissue_type="root"		* by the finished sequence as soon as it is available and
	201..2045		* the accession number will be preserved.
	/gene="dplp"		Location/Qualifiers
	201..2045		1. .156533
	/gene="dplp"		/organism="Dictyostelium discoideum"
	/codon_start=1		/strain="AX4"
	/product="dynamin-like protein DPlp"		/db_xref="taxon:44689"
	/protein_id="CAC19656.1"		/chromosome="2"
	/db_xref="GI:11991506"		/map="2268371-2355204"
	/translation="MATKSLGLINKIQACTVLGDHGGMSLWEALPTVAVVGQ	CDS	join(3827..3945,5512..5557)
	SSGKSSVLESVVGDFELPRGSGIVTRPLVLQHKTEGTEYAEFLHAPKRFADFA		/notes="ORF ID:dd_00443"
	AVRIEDETDRITGKSKQISNIPQLSIYSPVNVNLTLDLPLTKVAVDGPESIV		/codon_start=1
	QDIENMYSYVEKPCIIAISPAHQDIATSDAIKLAREVDPTGERTFGVATKLDIMD		/product="hypothetical protein"
	KGTCLDLEGRSYRLQHPWGYVNRQADINKRVDMAARRKEQYFEFTSPYGHIA		/protein_id="AA09328.1"
	SRMGSEYLAKLLSHLETVIRQIKPSIVALINKS IDEINAEIDRIGRPIADVSGAQLY		/db_xref="GI:20066214"
	TILELCRAFDVFEHLDPGGDRIYGVFDHOLPAALKLPDRLHLSLTKNVQKVVY		/translation="MSADQPLRLTMLSADQPPMQISQMSVDPPTTLITIHSGVYL
	EADGYOPLIAPEQGYRELIDGTSYFKGPAEATDVAHVFLKLVKRSISETTEELK		ASIDEGNOTA"
	FPTLASIAAANAALERFRDSKTVLRVDMESSYLTVVEFFKLHLBEKEKPNPR		complement(7554..8315)
	NAPNADPYSNDHFRTKIGNSYAINMVCDLTRNSLPKAVYQCVREARSKLLNFFY		/notes="ORF ID:dd_00439"
	AQVGRKEKLGMLDEDPQLMERGLTKLEKLELYKQARDIDAVANK"		/codon_start=1
BASE COUNT	706 a 472 c 529 g 645 t		/product="Discoidin I, D chain"
ORIGIN			/protein_id="AA09325.1"
Query Match	13.8%; Score 56.2; DB 8; Length 2352;		/db_xref="GI:20066211"
Best Local Similarity	58.8%; Pred. No. 0.54;		/translations="MSTQGLVQLISNAOCHLRTSTNYNGVHTQFNAALVYKNGKGTNTI
Matches	97; Conservative 0; Mismatches 68; Indels 0; Gaps 0;		DGSEAWCSSIVDTNQYIVAGCEVPRTFCVALQGDHQQWTSYKIRYSLDNVTWSE
QY 237	ATTATTTCCCAATAATGGAGACCCGTTTTTATTGAATATCGTCAGTTTCCCAATTAAAGTC 296		YRGAATIGTDRNTVNVNHFEDTPIRARSIAIHPLTNHNSILSRCEFTQPVQSSVYQ
Db 2188	ATTCTATCACAACTTCCCACTTTTTTTTGGTGATCTTCGATTCTTGAATACGTGT 2247		VGADIIYTGDNALNTGSGREVVPVKFOFEATLPKVALNFQDIDCTDATNQTIRIGV
QY 297	ATTCGAGCAGTAACTAATTTTGTAACTAACAACAGATGCAATAGTTTAAATAAAC 356		QPRNITTKGDFCVFTYWNENKVSIRADYIATALE"
Db 2248	TTTGAACAGTTAAGACATATTTTGAAGTCGCACCTCTTACATTAGACAAAAGGAAGC 2307		complement(9039..9800)
QY 357	TTATACCTTAACCTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 401		/notes="ORF ID:dd_00438"
Db 2308	TAATCTTGTATTTTAGAAAAAATAAAAAAAAAAAAAAAAAAAAAA 2352		/codon_start=1
RESULT 4			/product="Discoidin I, C chain and B chain."
LOCUS	AC117070 156533 bp DNA linear HTG 06-APR-2002		/protein_id="AA09326.1"
DEFINITION	Dictyostelium discoideum chromosome 2 map 2268371-2355204 strain		/db_xref="GI:20066212"
	AX4, *** SEQUENCING IN PROGRESS ***, in ordered pieces.		/translations="MSTQGLVQLISNAOCHLRTSTNYNDVHTQFNAALVYKNGKGTNTI
ACCESSION	AC117070.1 GI:20066187		DGSEAWCSSIVDTNQYIVAGCEVPRTFCVALQGDHQQWTSYKIRYSLDNVTWSE
VERSION	HTG: HTGS.PHASE2.		YRGAATIGTDRNTVNVNHFEDTPIRARSIAIHPLTNHNSILSRCEFTQPVQSSVYQ
KEYWORDS	Dictyostelium discoideum.		VGADIIYTGDNALNTGSGREVVPVKFOFEATLPKVALNFQDIDCTDATNQTIRIGV
SOURCE	Dictyostelium discoideum		QPRNITTKGDFCVFTYWNENKVSIRADYIATALE"
ORGANISM	Dictyostelium discoideum		join(12482..12692,13544..13672,14278..14315)
REFERENCE	Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.		/notes="ORF ID:dd_00437"
AUTHORS	1 (bases 1 to 156533)		/codon_start=1
	Gloeckner,G., Eichinger,L., Szafranski,K., Pachebat,J., Dear,P.,		/product="hypothetical protein"
	Lehmann,R., Baumgart,C., Parra,G., April,J.F., Guigo,R., Kumpf,K.,		/protein_id="AA09327.1"
	Tunggal,B., Cox,E., Quail,M.A., Platzer,M., Rosenthal,A. and		/db_xref="GI:20066213"
	Noegel,A.A.		/translation="MTKEDEQLIKKEVKSISIEDDLYDEDSYCLDGGQPKTHYSRHC
			SSIHQQVNVNKKVIMDHCKYPRSFARDAEDWDRTRKIVEKQLRQLRUCTDNRESINR
			TASIKRRLKFKYVASSIPILKN"
			14598..15479
			/notes="ORF ID:dd_00448"
			/codon_start=1
			/product="hypothetical protein"
			/protein_id="AA09329.1"
			/db_xref="GI:20066215"
			/translation="MNEFDKLKGLNLGEBELNKKTIQIRLFYPHTLELNSNFKLID
			NFIYNGTLNIVRRQKGITVGRILKKEFTLLHECYSTFKYEDFPLOKFIYTPGYHYV

REFERENCE	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
AUTHORS	1 (bases 1 to 204557)
TITLE	Howden, P.
JOURNAL	Direct Submission
COMMENT	Submitted (21-JUN-2002) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk On Jun 23, 2002 this sequence version replaced gi:20502249. During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above. This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em.; EMBL; SW.; SWISSPROT; Tr.; TREMBL; Wp.; WORMPEP; Information on the WORMPEP database can be found at http://www.sanger.ac.uk/Projects/C_elegans/wormpep RP23-18K13 is from the RPCI-23 Mouse PAC Library constructed by the group of Pieter de Jong. For further details see http://www.chori.org/bacpac/home.htm VECTOR: pBACE3.6
FEATURES	source
BASE COUNT	62833 a 37986 c 37959 g 65779 t
ORIGIN	1. .204557
Query Match	13.8%; Score 56; DB 10; Length 204557;
Best Local Similarity	55.7%; Pred. No. 0.34; Indels 0; Gaps 0;
Matches 107; Conservative	0; Mismatches 85;
QY 215	GTTCCTATAGTGAATCGATTATTTATGCCATAATGGAGACCCGTTTTTATTGTAATA 274
Db 161602	GTTCCTCTTCAGGACATTCAGAAGATTGTGTATCTGGCCAGCTCTCTGGAATATA 161543
QY 275	TGTCGATTTTCCAATAAAGTCATTTCGAGCCATCTAGTAATAATTTGTATCTAAACAAC 334
Db 161542	GCATCTCTACCATTTAGATCATGTGAACCAAGGGGAAACATCTGTGACAGAACATCT 161483
QY 335	AGATCAATAGTTTAAATAAATCTATATCTTAACTTTTAAAAAATAAAAAAAAAAAAA 394
Db 161482	TGAATAACAAGGCAATAAAGTCTGCCTAGATCTAGACAGATATAAAAAAAAAAAAA 161423
QY 395	AAAAAAAAAAAAA 406
Db 161422	AAAAAAAAAAAAA 161411
RESULT 6	
AL844864/C	AL844864
LOCUS	206345 bp DNA linear HTG 29-JUL-2002
DEFINITION	Mus musculus chromosome X clone RP23-360L8, *** SEQUENCING IN
PROGRESS	***, 15 unordered pieces.
ACCESSION	AL844864
VERSION	AL844864.2 GI:22022618
KEYWORDS	HTG; HTGS_PHASE1.
SOURCE	Mus musculus
ORGANISM	Mus musculus
REFERENCE	Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
AUTHORS	1 (bases 1 to 206345)
TITLE	McLay, K.
JOURNAL	Direct Submission
COMMENT	Submitted (28-JUL-2002) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk On Jul 30, 2002 this sequence version replaced gi:22003281. ----- Genome Center ----- Center: Wellcome Trust Sanger Institute Center code: SC Web site: http://www.sanger.ac.uk Contact: humquery@sanger.ac.uk ----- Project Information ----- Center project name: BM360L8 ----- Summary Statistics ----- Assembly program: XGAP4; version 4.5 Chemistry: Dye-terminator; 100% of reads Consensus quality: 202112 bases at least Q40 Consensus quality: 203382 bases at least Q30 Consensus quality: 204223 bases at least Q20 Insert size: 204945; sum-of-contigs Insert size: 202604; 0.4% error; agarose-fp Quality coverage: 6.25x in Q20 bases; sum-of-contigs Quality coverage: 6.39x in Q20 bases; agarose-fp ----- NOTE: This is a 'working draft' sequence. It currently consists of 15 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. * This record will be updated with the finished sequence * as soon as it is available and the accession number will * be preserved. 5919: contig of 5919 bp in length 1 5920 6019: gap of 100 bp 6020 45539: contig of 39520 bp in length 45540 45639: gap of 100 bp 45640 49244: contig of 3605 bp in length 49245 49344: gap of 100 bp 49345 52863: contig of 3519 bp in length 52864 52963: gap of 100 bp 52964 56198: contig of 3235 bp in length 56199 56298: gap of 100 bp 56299 64095: contig of 7797 bp in length 64096 64195: gap of 100 bp 64196 76544: contig of 12349 bp in length 76545 76644: gap of 100 bp 76645 104869: contig of 28225 bp in length 104870 104969: gap of 100 bp 104970 113702: contig of 8733 bp in length 113703 113802: gap of 100 bp 113803 157886: contig of 44084 bp in length 157887 157986: gap of 100 bp 157987 174948: contig of 16962 bp in length 174949 175048: gap of 100 bp 175049 185910: contig of 10862 bp in length 185911 186010: gap of 100 bp 186011 190330: contig of 4320 bp in length 190331 190430: gap of 100 bp 190431 198187: contig of 7757 bp in length 198188 198287: gap of 100 bp 198288 206345: contig of 8058 bp in length. Location/Qualifiers 1. .206345 /organism="Mus musculus" /db_xref="taxon:10090" /chromosome="X"

RESULT 8
HSM803534

RESULT 7
BC010766

```
LOCUS      HSM803534      3543 bp      mRNA      linear      PRI 10-JUL-2002
DEFINITION Homo sapiens mRNA; cDNA DKF2p686p1536 (from clone DKF2p686p1536).
ACCESSION  AL832227
VERSION    AL832227.1  GI:21732773
KEYWORDS   human.
SOURCE     Homo sapiens
            Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 3543)
AUTHORS   Wambutt,R., Heubner,D., Mewes,H.W., Well,B., Amid,C. and Wiemann,S.
TITLE     Direct Submission
JOURNAL   Submitted (09-JUL-2002) 1, D-85764 Neuherberg, GERMANY
COMMENT   Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
            Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
            sequenced by AGOWA (Berlin/Germany) within the cDNA sequencing
            consortium of the German Genome Project.
            This clone (DKF2p686p1536) is available at the RZPD in Berlin.
            Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
            Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de Further
            information about the clone and the sequencing project is available
            at http://mips.gsf.de/proj/cDNA/.
FEATURES   Location/Qualifiers
            source          1..3543
                        /organism="Homo sapiens"
                        /db_xref="taxon:9606"
                        /clone="DKF2p686p1536"
                        /tissue_type="cDNA-collection"
                        /clone_lib="686 (synonym: hlcc3). Vector pSport1_sfi; host
                        DH10B; sites SfIIA + SfIIB"
                        /dev_stage="adult"
            polyA_site      1077 a      656 c      623 g      1187 t
BASE COUNT  1077 a      656 c      623 g      1187 t
ORIGIN
Query Match      13.7%; Score 55.8; DB 9; Length 3543;
Best Local Similarity 57.0%; Pred. No. 0.6;
Matches 102; Conservative 0; Mismatches 77; Indels 0; Gaps 0;
QY  228  GAAATCGGATTATTGCCATATGAGACCCGTTTATTGATATCGTCAGTTTCCA 287
DB  3316  GATAATCGGTGTGATTATTATTTGCGAGAAATGATATATCATCACAAAGCACACA 3375
QY  288  ATTAAGATCATTCGAGGCATCTGAATAATTTGTATCTAACACAGATGCAATAGTT 347
DB  3376  ATATATATATTCTTTCGAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 3435
QY  348  TAAATAACTTATCTTAACTTTTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA 406
DB  3436  AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATA 3494

RESULT 9
AX345888/c
DEFINITION Sequence 959 from Patent WO0200928.
ACCESSION  AX345888
VERSION    AX345888.1  GI:18493774
KEYWORDS   synthetic construct.
SOURCE     synthetic construct
            artificial sequences.
ORIGIN
REFERENCE  1
AUTHORS   Olek,A., Piepenbrock,C. and Berlin,K.
TITLE     Diagnosis of diseases associated with the immune system
JOURNAL   Patent: WO 0200928-A 959 03-JAN-2002;
            Epigenomics AG (DE)
FEATURES   Location/Qualifiers
            source          1..17294
                        /organism="synthetic construct"
                        /db_xref="taxon:32630"
                        /note="Chemically treated genomic DNA (Homo sapiens)"
BASE COUNT  4922 a      203 c      3691 g      8478 t
```

```
ORIGIN
Query Match      13.7%; Score 55.8; DB 6; Length 17294;
Best Local Similarity 53.4%; Pred. No. 0.5;
Matches 117; Conservative 0; Mismatches 102; Indels 0; Gaps 0;
QY  184  CTTTTCGAGAGAACATTCAGGACACCTGCGTTTGCCTATAGTGAATAATCCGATTATT 243
DB  280  CTTTAACCTATAAAAAAATAAAACCCCTATTAAATTTAAATCACCATCAATTCGATT 221
QY  244  TGCATAATGGAGACCCGTTTATTGAATATCGTCAGTTTCCATTAAGTCATTTCCA 303
DB  220  TTTATTAATCGTACAAATTTTTTTTTTTTTTTTTTTTTTTTACTCAATATCAAAACA 161
QY  304  GCCATCTGAATAATTTGTAAATCTTAAACAAGATGCAATAGTTTAAATAAACTTATACT 363
DB  160  ACTAATAAATTTACTTTCAAAAAATTTAAATATTAACCATATATAAAAAAATAAATAC 101
QY  364  TAACTTTTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 402
DB  100  TAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 62

RESULT 10
AF151644
LOCUS      AF151644      1652 bp      mRNA      linear      INV 27-JUL-2001
DEFINITION Caenorhabditis elegans ionotropic GABA receptor subunit UNC-49C
            (unc-49C) mRNA, complete cds.
ACCESSION  AF151644
VERSION    AF151644.1  GI:5354173
KEYWORDS   Caenorhabditis elegans.
SOURCE     Caenorhabditis elegans
            Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida;
            Rhabditoidea; Rhabditidae; Peloderinae; Caenorhabditis.
REFERENCE  1 (bases 1 to 1652)
AUTHORS   Bamber,B.A., Beg,A.A., Twyman,R.E. and Jorgensen,E.M.
TITLE     The Caenorhabditis elegans unc-49 locus encodes multiple subunits
            of a heteromultimeric GABA receptor
JOURNAL   J. Neurosci. 19 (13), 5348-5359 (1999)
MEDLINE   9307327
PUBMED    10377345
REFERENCE  2 (bases 1 to 1652)
AUTHORS   Bamber,B.A. and Jorgensen,E.M.
TITLE     Direct Submission
JOURNAL   Submitted (17-MAY-1999) Biology, University of Utah, 257S 1400E,
            Salt Lake City, UT 84112-0840, USA
FEATURES   Location/Qualifiers
            source          1..1652
                        /organism="Caenorhabditis elegans"
                        /strain="Bristol N2"
                        /db_xref="taxon:6239"
                        /chromosome="III"
                        /map="between lin-19 and mel-23"
            gene            1..1652
                        /gene="unc-49C"
                        114..1460
                        /gene="unc-49C"
                        /codon_start=1
                        /product="ionotropic GABA receptor subunit UNC-49C"
                        /protein_id="AAD42386.1"
                        /db_xref="GI:5354174"
                        /translation="MARPTLIIVLLSAHLCHLVVVVQDEDSHINTOLLSSVLDRLTNR
                        TTYDKRLRPYGEKPDVGVITIHVSSTISAVSEVDMDFTLDFYMRQWOPRLAFGLSD
                        LGLSKELDSLTVGVLDLRLKPDFTFPNEKKSFHFLATTHNSFLRIEGDGVYTSOR
                        LTVATCPMDLKLFPMDSOHCKLEISYAYSTAEIEYKWTCKEPCNSTAVKADANIE
                        LSSYKFTKICQKRTLASTSGTSYRLRVSFIFRDSGFYFLQIFFPASVLVLSLSE
                        WINRDSAPSRITLMTVLTETHTMTGNRLPPVAIVRAVDVFLGFCVLLVILALIE
                        YACVAYSKKNEDRRREKHPAPPTPDILHLAEACTNCAAPTSTIAIVKOSN
                        RFCVSHSHDIVSRAAFPFLVFLFLLWLLILLYKSKRLPYISEHGRDCRDAPDLH"
BASE COUNT  456 a      413 c      323 g      460 t
ORIGIN
```


Job time : 2057 secs

```
CDS
69..878
/gene="CG1643"
/note="Longest ORF"
/codon_start=1
/product="LD34980p"
/protein_id="AAL39741.1"
/db_xref="GI:17862528"
/db_xref="FLYBASE:FBgn0029943"
/translating="MAHDREVLRIWEGQIGICFQADREIVGKPEPFYLMISRLSY
LPIVTKVRKYFSYISAHQDGVWDFNGTFLRHYPYGLVYDLHHPEDSTPWCL
TIHFSFPEDMLVLSKELSHYNSCLKEADVLKHLGLVISAMOKKDHNLWLGLV
NEKFDQFWAVNRRLMEPEYGLDESFKNIPRIYTDDDFTYTKLISPSYVGOKKSLAD
LMAELSTPVRRAVGCRTGIDLHEETQLOWMSEHLSYPDNFLHLSVDYKDV"

BASE COUNT      441 a      312 c      301 g      378 t
ORIGIN
```

```
Query Match      13.5%; Score 55; DB 3; Length 1432;
Best Local Similarity 66.4%; Pred. No. 0.95;
Matches 79; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 288 ATTAAGTCATTTCAGCCATCACTCAATAATTTGTATCTAACACAGATGCAATAGTT 347
DB 1302 ACTAAATGACATCAGCCACCACTAATGATTAAATGGAACTATTTTATATCGACCCCAATC 1361

QY 348 TAAATAAACTTACTTAACTTTTAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406
DB 1362 RATATATATATACGAAAGTTATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1420
```

```
RESULT 15
DDIDPP5A      1805 bp      DNA      linear      INV 11-MAR-1994
LOCUS      Dictyostelium purpureum (Dpp5) DNA sequence, repeat region.
DEFINITION
ACCESSION      L05617
VERSION      L05617.1 GI:167774
KEYWORDS      repeat region.
SOURCE      Dictyostelium purpureum (strain DPA) DNA.
ORGANISM      Dictyostelium purpureum
Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.
REFERENCE      1 (bases 1 to 1805)
AUTHORS      Kiyosawa,H., Hughes,J.E., Podgorski,G.J. and Welker,D.L.
TITLE      Small circular plasmids of the eukaryote Dictyostelium purpureum
define two novel plasmid families
JOURNAL      Plasmid 30 (2), 106-118 (1993)
MEDLINE      94052367
PUBMED      8234483
FEATURES
source      Location/Qualifiers
1..1805
/organism="Dictyostelium purpureum"
/strain="DPA"
/db_xref="taxon:5786"
```

```
repeat_region 320..477
BASE COUNT      783 a      159 c      202 g      661 t
ORIGIN
```

```
Query Match      13.5%; Score 55; DB 3; Length 1805;
Best Local Similarity 61.5%; Pred. NO. 0.92;
Matches 88; Conservative 0; Mismatches 55; Indels 0; Gaps 0;

QY 264 TTATTGAATATCGTCAGTTCCCAATTAAGTCATTTCGAGCCATCACTGAATAATTTGT 323
DB 1154 TTAATTCAATTTGATATATAAAAAATAAAAAATAGTTATATTGATAAACTATAAAATTTA 1213

QY 324 AATCTAACACAGATGCAATAGTTTAAATAAACTTAACTTAACTTTTAAAAAIAAAAA 383
DB 1214 AAAAAAAAAAAAAAAAAAATTTTAAAAAIAAAAAATAATATATGCGGATATATAAAATAAAAA 1273

QY 384 AAAAAAAAAAAAAAAAAAAAAA 406
DB 1274 AAAAAAAAAATAAAAAAAAAAAAA 1296
```


GenCore version 5.1.5
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 5, 2003, 18:00:58 ; Search time 230 Seconds
(without alignments)
3975.267 Million cell updates/sec

Title: US-09-829-481-3
Perfect score: 406
Sequence: 1 ctctactacaatcactaagt.....aaaaaaaaaaaaaaaaaaaa 406

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_101002.*

1: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1980.DAT.*
2: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1981.DAT.*
3: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1982.DAT.*
4: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1983.DAT.*
5: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1984.DAT.*
6: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1985.DAT.*
7: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1986.DAT.*
8: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1987.DAT.*
9: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1988.DAT.*
10: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1989.DAT.*
11: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1990.DAT.*
12: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1991.DAT.*
13: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1992.DAT.*
14: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1993.DAT.*
15: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1994.DAT.*
16: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1995.DAT.*
17: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1996.DAT.*
18: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1997.DAT.*
19: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1998.DAT.*
20: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1999.DAT.*
21: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2000.DAT.*
22: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT.*
23: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT.*
24: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB	ID	Description
1	406	100.0	406	24	AAH77209		Arthropod defensin
2	76	18.7	386	24	AAH77210		Arthropod defensin
3	59.2	14.6	230	23	ABV57465		Human prostate exp
4	59.2	14.6	236	23	ABV56953		Human prostate exp
5	58	14.3	574	23	ABV57502		Human prostate exp
6	57	14.0	497	23	ABV58273		Human prostate exp
7	56	13.8	381	23	ABV58662		Human prostate exp
8	55.8	13.7	17294	24	ABL32986		Human immune syste
9	55.2	13.6	325	22	AAS29049		cDNA encoding for

10	55.2	13.6	621	22	AAS29124	cDNA encoding for
11	54.6	13.4	351	24	AAH77211	Arthropod defensin
12	54.6	13.4	425	22	AAS60450	Human cancer agent
13	54.6	13.4	2736	24	ABG54618	Human ovarian anti
14	54.4	13.4	372	23	ABV37528	Human prostate exp
15	54.4	13.4	447	23	ABV10351	Human prostate exp
16	54.2	13.3	266	23	ABV07596	Human prostate exp
17	54.2	13.3	1327	24	AAD24775	Glycine max ankryl
18	53.8	13.3	309	23	ABV44594	Human prostate exp
19	53.8	13.3	431	23	ABV04399	Human prostate exp
20	53.8	13.3	461	24	AAH77208	Arthropod defensin
21	53.8	13.3	6290	24	ABL33047	Human immune syste
22	53.6	13.2	154	22	AAL23561	Human breast cance
23	53.6	13.2	193	22	AAL14699	Human breast cance
24	53.6	13.2	1812	21	AAAL16649	Human secreted pro
25	53.4	13.2	6189	22	AAS46600	Tumour suppressor
26	53.4	13.2	6189	24	ABL34593	Human metastasis a
27	53.2	13.1	300	22	AAH70049	Human cervical can
28	53	13.1	959	24	ABK63920	cDNA encoding huma
29	52.8	13.0	3581	15	AAQ44391	Sequence of murine
30	52.6	13.0	3293	22	AAS25944	Human cDNA encodi
31	52.6	13.0	5198	24	ABL32279	Human immune syste
32	52.4	12.9	165	22	AAI84574	Human polynucleoti
33	52.4	12.9	958	22	AAC92233	Human polynucleoti
34	52.4	12.9	958	24	AAD22188	Apoaequorin-encodi
35	52.4	12.9	959	9	AAH81534	Aequorea victoria
36	52.4	12.9	1994	22	AAH48294	pAQ440 aequorin ge
37	52.4	12.9	2175	21	AAC79978	Honeybee alpha-glu
38	52.2	12.9	368	22	AAS60046	Human secreted pro
39	52.2	12.9	426	22	AAI88844	Human cancer agent
40	52.2	12.9	441	22	AAI91749	Human polynucleoti
41	52.2	12.9	504	22	AAI85190	Human polynucleoti
42	52.2	12.9	612	22	AAH71471	Human cervical can
43	52.2	12.9	815	21	AAC79968	Human secreted pro
44	52.2	12.9	1387	22	AAS29132	cDNA encoding for
45	52.2	12.9	3957	22	ABA06411	Human cDNA SEQ ID

ALIGNMENTS

RESULT 1
AAH77209
ID AAH77209 standard; cDNA; 406 BP.
XX
AC AAH77209;
XX
DT 30-JAN-2002 (first entry)
XX
DE Arthropod defensin cDNA from *Vaejovis carolinianus* clone ikslc.pk0.
XX
KW Arthropod: defensin; ikslc.pk0; antimicrobial; microbial pathogen;
KW gene therapy; ss.
XX
XX Vaejovis carolinianus.
XX
XX Key Location/Qualifiers
XX CDS 44..229
XX /*tag= a
XX /product= "Defensin"
XX
XX EPI146052-A2.
XX
XX PD 17-OCT-2001.
XX
XX PF 12-APR-2001; 2001EP-0303488.
XX
XX PR 14-APR-2000; 2000US-197279P.
XX
XX PA (DUPO) DU PONT DE NEMOURS & CO E I.
XX
XX PI Presnail JK, Weng Z, Wong JF;
XX

```
DR WPI; 2002-001056/01.
XX P-PSDB; AAG77932.
PT New polynucleotides encoding Arthropod defensin polypeptides for
PT improving the microbial resistance of plants and animals by gene
PT therapy -
XX
XX Claim 6; Page 18; 22pp; English.
XX
XX The sequence represents a novel Arthropod defensin from V. carolinianus
CC clone ikslc.pk0. The invention relates to novel polynucleotides encoding
CC Arthropod defensin polypeptides. The polypeptides and polynucleotides of
CC the invention have antimicrobial activity. The polynucleotides may be
CC used to genetically engineer cells and organisms, especially plants, to
CC alter their resistance to a wide range of microbial pathogens. The
CC polynucleotides may also have a use in gene therapy.
XX
XX Sequence 406 BP; 143 A; 66 C; 67 G; 130 T; 0 other;
SQ
Query Match 100.0%; Score 406; DB 24; Length 406;
Best Local Similarity 100.0%; Pred. No. 3.le-64;
Matches 406; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTCTACTACAATCACTAAGTCTCTTCTCCACTCAGCTTCAAGATGAATCCATAGCTAT 60
DB 1 CTCTACTACAATCACTAAGTCTCTTCTCCACTCAGCTTCAAGATGAATCCATAGCTAT 60
QY 61 TATTTTCATCGTCTTGTGCTCTCTGTATTTTGGAGATGGGATTTGAGAAGCTGGTTT 120
DB 61 TATTTTCATCGTCTTGTGCTCTCTGTATTTTGGAGATGGGATTTGAGAAGCTGGTTT 120
QY 121 TGGATGTCCTTTAATCGAGGAATGCCATAGACATTCGAAAGTATTCGCTGAGAG 180
DB 121 TGGATGTCCTTTAATCGAGGAATGCCATAGACATTCGAAAGTATTCGCTGAGAG 180
QY 181 AGGCTTTTGCAGAGAACTTTTCAGGACAACTCGGTTTGCTATAGGTGAAATCCGATTT 240
DB 181 AGGCTTTTGCAGAGAACTTTTCAGGACAACTCGGTTTGCTATAGGTGAAATCCGATTT 240
QY 241 ATTTGCCATATGAGACCCGTTTTTATGTAATATCGTCAGTTTCCCAATTAAGTCATTT 300
DB 241 ATTTGCCATATGAGACCCGTTTTTATGTAATATCGTCAGTTTCCCAATTAAGTCATTT 300
QY 301 CGAGCCATCTGAATAATTTTGTAATCTAACACAGATGCAATAGTTTAAATAAATAT 360
DB 301 CGAGCCATCTGAATAATTTTGTAATCTAACACAGATGCAATAGTTTAAATAAATAT 360
QY 361 ACTTAACCTTTTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 406
DB 361 ACTTAACCTTTTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 406
RESULT 2
AAH77210
ID AAH77210 standard; cDNA; 386 BP.
XX
XX AAH77210;
XX
XX 30-JAN-2002 (first entry)
XX
XX Arthropod defensin cDNA from Argiope sp. clone aotlc.pk0 #1.
XX
XX Arthropod; defensin; aotlc.pk0; antimicrobial; microbial pathogen;
KW gene therapy; ss.
XX
XX Argiope sp.
XX
XX Key Location/Qualifiers
XX 14..196
XX /*tag= a
XX /product= "Defensin"
XX
XX EP1146052-A2.
```

```
XX 17-OCT-2001.
XX
XX 12-APR-2001; 2001EP-0303488.
XX
XX 14-APR-2000; 2000US-197279P.
XX
XX (DUPO ) DU PONT DE NEMOURS & CO E I.
XX
XX Presnail JK, Weng Z, Wong JF;
XX
XX WPI; 2002-001056/01.
XX P-PSDB; AAG77933.
XX
XX New polynucleotides encoding Arthropod defensin polypeptides for
PT improving the microbial resistance of plants and animals by gene
PT therapy -
XX
XX Claim 6; Page 18; 22pp; English.
XX
XX The sequence represents a novel Arthropod defensin from Ariope sp.
CC clone aotlc.pk0. The invention relates to novel polynucleotides encoding
CC Arthropod defensin polypeptides. The polypeptides and polynucleotides of
CC the invention have antimicrobial activity. The polynucleotides may be
CC used to genetically engineer cells and organisms, especially plants, to
CC alter their resistance to a wide range of microbial pathogens. The
CC polynucleotides may also have a use in gene therapy.
XX
XX Sequence 386 BP; 140 A; 81 C; 67 G; 94 T; 4 other;
SQ
Query Match 18.7%; Score 76; DB 24; Length 386;
Best Local Similarity 54.4%; Pred. No. 3.8e-05;
Matches 178; Conservative 0; Mismatches 141; Indels 8; Gaps 1;
QY 78 TTGCTCTCTGTATTTGGAGATGGGATTTGAGAGCTGTAGAGCTGGTTTGGATGTCCTTTAATG 137
DB 45 TAGTCGTCTGTGCTTTGCCACAGTGGCCGCGGAGCTGGTTTCGGCTGCCCTTCGACC 104
QY 138 CAGGAAATGCCATAGACATTCGAAAGTATTCGTCGTAGAGAGGCTTTTGCAGAGGAA 197
DB 105 AGATGCGATGTCACATCATTTGCAGAGCATCAAAATACAGGGGAGGATCTGCACCAACT 164
QY 198 CTTTCAGCACAACTGGCTTTGCTATAGTCAAAATCCGATTTATTTGCCATATGAGGA 257
DB 165 TATTCAAGCGCACCTGCAAGTGTACGGATGATGACCCCTCCCTCTCAGACAGGAGC 224
QY 258 CCCGTTTTTATTTGAATATCGTCAGTTTCCAAATTAAGTCATTTTCGAGCCATCTGAATAA 317
DB 225 CCACACCTT-----TCATTGACATCCGATTTCCGATTTTCCAAATGCAAAATGTAACA 276
QY 318 TTTTGTAACTCAACACAGATGCAATAGTTTAAATAAACTTATACTTAACCTTTTAAAAA 377
DB 277 CATGATGAATTTGATGCAAGTGCCTTAAATTAATAAATTTGATTTTACATTTTAAAAA 336
QY 378 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 404
DB 337 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 363
RESULT 3
ABV57465
ID ABV57465 standard; cDNA; 230 BP.
XX
XX ABV57465;
XX
XX 17-SEP-2002 (first entry)
XX
XX Human prostate expression marker cDNA 57456.
XX
XX Human; prostate cancer; cytostatic; carcinogen; pharmacodyanamic marker;
KW pharmacogenomic marker; gene; ss.
XX
XX Homo sapiens.
OS
```



```

XX PF 20-FEB-2001; 2001WO-US05171.
XX PR 17-FEB-2000; 2000US-183319P.
XX PR 16-MAR-2000; 2000US-189862P.
XX PR 25-MAY-2000; 2000US-207454P.
XX PR 09-JUN-2000; 2000US-211314P.
XX PR 18-JUL-2000; 2000US-219007P.
XX PR 13-DEC-2000; 2000US-255281P.
XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX PI Schlegel R, Endege WO, Monahan JE;
XX DR WPI; 2001-662795/76.
XX PT Novel isolated nucleic acid molecule associated with cancerous state of
XX PT prostate cells and correlating with presence of prostate cancer, useful
XX PT for detecting presence of prostate cancer, stage of prostate cancer -
XX PS Claim 1; Page 11059; 11750pp; English.
XX CC The invention relates to an isolated nucleic acid molecule (I) comprising
XX CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
XX CC specification or its complement. (I) is useful for:
XX CC (a) assessing whether a patient is afflicted with prostate cancer;
XX CC (b) monitoring the progression of prostate cancer in a patient;
XX CC (c) assessing the efficacy of a test compound to inhibit prostate
XX CC cancer in a patient;
XX CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
XX CC in a patient;
XX CC (e) selecting a composition for inhibiting prostate cancer in a patient;
XX CC (f) assessing the prostate cell carcinogenic potential of a compound;
XX CC (g) determining whether prostate cancer has metastasized in a patient;
XX CC (h) assessing the aggressiveness or indolence of prostate cancer in a
XX CC patient;
XX CC (I) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX SQ Sequence 574 BP; 241 A; 113 C; 95 G; 124 T; 1 other;

Query Match 14.3%; Score 58; DB 23; Length 574;
Best Local Similarity 58.8%; Pred. NO. 0.064;
Matches 100; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

Oy 237 ATTTATTTGCCATAATGAGACCCGTTTTTTATTGTAATCGTCAGTTCCCAATTAAGTC 296
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 270 ATTTCATTTCACAGGTAATGTTTATATACACTGGCAGCAGCATACATAAACTT 329
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 297 ATTTCCGACCATACGTAATAATTTTGTATCTAACACAGATGCAATAGTTTAAATAAAC 356
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 330 AGTATGAACTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 389
Oy 357 TTATACCTTAACCTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 390 AAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 439

RESULT 6
ABV58273
ID ABV58273 standard; cDNA; 497 BP.
XX AC ABV58273;
XX DT 13-SEP-2002 (first entry)
XX DE Human prostate expression marker cDNA 58264.
XX KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
XX KW pharmacogenomic marker; gene; ss.
XX OS Homo sapiens.
XX PN WO200160860-A2.

```

```

XX PF 23-AUG-2001.
XX PR 20-FEB-2001; 2001WO-US05171.
XX PR 17-FEB-2000; 2000US-183319P.
XX PR 16-MAR-2000; 2000US-189862P.
XX PR 25-MAY-2000; 2000US-207454P.
XX PR 09-JUN-2000; 2000US-211314P.
XX PR 18-JUL-2000; 2000US-219007P.
XX PR 13-DEC-2000; 2000US-255281P.
XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX PI Schlegel R, Endege WO, Monahan JE;
XX DR WPI; 2001-662795/76.
XX PT Novel isolated nucleic acid molecule associated with cancerous state of
XX PT prostate cells and correlating with presence of prostate cancer, useful
XX PT for detecting presence of prostate cancer, stage of prostate cancer -
XX PS Claim 1; Page 11189; 11750pp; English.
XX CC The invention relates to an isolated nucleic acid molecule (I) comprising
XX CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
XX CC specification or its complement. (I) is useful for:
XX CC (a) assessing whether a patient is afflicted with prostate cancer;
XX CC (b) monitoring the progression of prostate cancer in a patient;
XX CC (c) assessing the efficacy of a test compound to inhibit prostate
XX CC cancer in a patient;
XX CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
XX CC in a patient;
XX CC (e) selecting a composition for inhibiting prostate cancer in a patient;
XX CC (f) assessing the prostate cell carcinogenic potential of a compound;
XX CC (g) determining whether prostate cancer has metastasized in a patient;
XX CC (h) assessing the aggressiveness or indolence of prostate cancer in a
XX CC patient;
XX CC (I) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX SQ Sequence 497 BP; 235 A; 77 C; 69 G; 115 T; 1 other;

Query Match 14.0%; Score 57; DB 23; Length 497;
Best Local Similarity 56.8%; Pred. No. 0.096;
Matches 105; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

Oy 222 ATAGTGAAAAATCCGATTATTTCGCATAATGAGACCCGTTTTTTATTGAATATCGTCAG 281
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 282 TTTCCAATTAAGTCATTTTCGAGCCATCTGTAATATTTTGTAACTCTAACACAGATGCA 341
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 225 ATATCAATTAATAATAATTTTAGTGGAAATGAAAAAATAAAAAAAAAAAAAAAAAAAAA 284
Oy 342 ATAGTTTAAATAAACTTATCTTAACTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 401
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 402 AAAAA 406
Db |||||
Oy 345 AAAAA 349

RESULT 7
ABV58662
ID ABV58662 standard; cDNA; 381 BP.
XX AC ABV58662;
XX DT 13-SEP-2002 (first entry)
XX DE Human prostate expression marker cDNA 58653.
XX PN

```


KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW pharmacogenomic marker; gene; ss.

OS Homo sapiens.

PN WO200160860-A2.

XX 23-AUG-2001.

XX 20-FEB-2001; 2001WO-US05171.

XX 17-FEB-2000; 2000US-183319P.

XX 16-MAR-2000; 2000US-189862P.

XX 25-MAY-2000; 2000US-207454P.

XX 09-JUN-2000; 2000US-211314P.

XX 18-JUL-2000; 2000US-219007P.

XX 13-DEC-2000; 2000US-255281P.

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX Schlegel R, Endege WO, Monahan JE;

XX WPI; 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of

XX prostate cells and correlating with presence of prostate cancer, useful
XX for detecting presence of prostate cancer, stage of prostate cancer -

XX Claim 1; Page 11255; 11750pp; English.

XX The invention relates to an isolated nucleic acid molecule (I) comprising

XX a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the

XX specification of its complement. (I) is useful for:

XX (a) assessing whether a patient is afflicted with prostate cancer;

XX (b) monitoring the progression of prostate cancer in a patient;

XX (c) assessing the efficacy of a test compound to inhibit prostate

XX cancer in a patient;

XX (d) assessing the efficacy of a therapy for inhibiting prostate cancer

XX in a patient;

XX (e) selecting a composition for inhibiting prostate cancer in a patient;

XX (f) assessing the prostate cell carcinogenic potential of a compound;

XX (g) determining whether prostate cancer has metastasized in a patient;

XX (h) assessing the aggressiveness or indolence of prostate cancer in a

XX patient;

XX (I) is also useful as a pharmacodynamic or pharmacogenomic marker.

XX Sequence 381 BP; 196 A; 70 C; 49 G; 66 T; 0 other;

Query Match 13.8%; Score 56; DB 23; Length 381;

Best Local Similarity 77.3%; Pred. No. 0.15;

Matches 68; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 319 TTGTAACTACACACATGCAATAGTTTAAATAACTTAACTTAACTTTAAAAAAA 378

DB 112 TTGTAACTTCCACAGAGATGAATAATTTGATAATAAAATCTTAAACATAATCA 171

QY 379 AAAAAAAAAAAAAAAAAAAAAA 406

DB 172 AAAAAAAAAAAAAAAAAAAAAA 199

KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW pharmacogenomic marker; gene; ss.

OS Homo sapiens.

PN WO200160860-A2.

XX 23-AUG-2001.

XX 20-FEB-2001; 2001WO-US05171.

XX 17-FEB-2000; 2000US-183319P.

XX 16-MAR-2000; 2000US-189862P.

XX 25-MAY-2000; 2000US-207454P.

XX 09-JUN-2000; 2000US-211314P.

XX 18-JUL-2000; 2000US-219007P.

XX 13-DEC-2000; 2000US-255281P.

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX Schlegel R, Endege WO, Monahan JE;

XX WPI; 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of

XX prostate cells and correlating with presence of prostate cancer, useful
XX for detecting presence of prostate cancer, stage of prostate cancer -

XX Claim 1; Page 11255; 11750pp; English.

XX The invention relates to an isolated nucleic acid molecule (I) comprising

XX a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the

XX specification of its complement. (I) is useful for:

XX (a) assessing whether a patient is afflicted with prostate cancer;

XX (b) monitoring the progression of prostate cancer in a patient;

XX (c) assessing the efficacy of a test compound to inhibit prostate

XX cancer in a patient;

XX (d) assessing the efficacy of a therapy for inhibiting prostate cancer

XX in a patient;

XX (e) selecting a composition for inhibiting prostate cancer in a patient;

XX (f) assessing the prostate cell carcinogenic potential of a compound;

XX (g) determining whether prostate cancer has metastasized in a patient;

XX (h) assessing the aggressiveness or indolence of prostate cancer in a

XX patient;

XX (I) is also useful as a pharmacodynamic or pharmacogenomic marker.

XX Sequence 381 BP; 196 A; 70 C; 49 G; 66 T; 0 other;

Query Match 13.8%; Score 56; DB 23; Length 381;

Best Local Similarity 77.3%; Pred. No. 0.15;

Matches 68; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 319 TTGTAACTACACACATGCAATAGTTTAAATAACTTAACTTAACTTTAAAAAAA 378

DB 112 TTGTAACTTCCACAGAGATGAATAATTTGATAATAAAATCTTAAACATAATCA 171

QY 379 AAAAAAAAAAAAAAAAAAAAAA 406

DB 172 AAAAAAAAAAAAAAAAAAAAAA 199

KW neuroprotective; anti-HIV; anticonvulsant; ophthalmological;
KW antirheumatic; antiarthritic; antidiabetic; antipsoriatic;
KW antiinflammatory; cancer; eye disease; arteriosclerosis; anaemia;
KW acute myeloid leukaemia; Alzheimer's disease; AIDS; epilepsy;
KW neurofibromatosis; rheumatoid arthritis; psoriasis; bowel disease;
KW gene; ds.

XX Homo sapiens.

XX WO200200928-A2.

XX 03-JAN-2002.

XX 02-JUL-2001; 2001WO-EP07537.

XX 30-JUN-2000; 2000DE-1032529.

XX 01-SEP-2000; 2000DE-1043826.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2002-130909/17.

XX Nucleic acid comprising fragment of chemically modified gene, useful
XX for diagnosis and treatment of diseases associated with abnormal
XX cytosine methylation -

XX Claim 1; SEQ ID NO 959; 32pp + Sequence Listing; German. 1

XX The present invention provides a number of human immune system associated
XX genes which are modified by the methylation of cytosines. The sequences
XX can be used in the diagnosis and treatment of immune system disorders,
XX including eye diseases such as retinopathy, neovascular glaucoma and
XX macular degeneration, arteriosclerosis, anaemia, cancer, acute myeloid
XX leukaemia, Alzheimer's disease, AIDS, epilepsy, neurofibromatosis,
XX rheumatoid arthritis, psoriasis and inflammatory/ulcerative bowel
XX diseases. The present sequence is a gene of the invention.

XX Sequence 17294 BP; 4922 A; 203 C; 3691 G; 8478 T; 0 other;

Query Match 13.7%; Score 55.8; DB 24; Length 17294;

Best Local Similarity 53.4%; Pred. No. 0.16;

Matches 117; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 184 CTTTTCAGAGGAACTTTCAGGACAACTCGCTTTCGTATAGTGAATCCGATTATT 243

DB 280 CTTTAACTATAAAAAAAAAATAAACCCCTATTATTAATCAATTCGATT 221

QY 244 TGCATAATGAGACCGGTTTTTTTATTGAATATCGTCAGTTTCCAATTAAGTCATTTCGA 303

DB 220 TTCTATTAATCGTACAAATTTTTTTTTTTTTTTTTTTTTTTTACTCAATATCAACCA 161

QY 304 GCATACATGAATTTTGTAAATCTAACACACATGCAATAGTTTAAATAAATCTTACT 363

DB 160 ACCTAAATAAATTAACCTTTCACAAAAATTAATATATAACCATATAAAAAATAAAC 101

QY 364 TAACTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 402

DB 100 TAAATAAAAAAAAAAAAAAAAAAAAAAAAAACACAAA 62

RESULT 9

AAS29049

ID AAS29049 standard; cDNA; 325 BP.

XX AAS29049;

XX 21-NOV-2001 (first entry)

XX cDNA encoding for human DNA-binding protein #20.

XX Human; DNA-binding protein; histone; chromo domain protein;

KW chromatin organisation modifier; y-box binding protein;
KW DNA organisation; gene transcription; malignant disease;
KW autoimmune disorder; rheumatic disease; genetic abnormality;
KW infectious disease; neurological disorder; gene therapy;
KW immunomodulatory; anti-HIV; anti rheumatic; anti microbial;
KW cytostatic; ss.

OS Homo sapiens.

XX WO200155162-A1.

PN PD

XX 02-AUG-2001.

PF 17-JAN-2001; 2001WO-US01305.

XX 31-JAN-2000; 2000US-0179065.

PR 04-FEB-2000; 2000US-0180628.

PR 24-FEB-2000; 2000US-0184664.

PR 02-MAR-2000; 2000US-0186350.

PR 16-MAR-2000; 2000US-0189874.

PR 17-MAR-2000; 2000US-0190076.

PR 18-APR-2000; 2000US-0198123.

PR 19-MAY-2000; 2000US-0205515.

PR 07-JUN-2000; 2000US-0209467.

PR 28-JUN-2000; 2000US-0214886.

PR 30-JUN-2000; 2000US-0215135.

PR 07-JUL-2000; 2000US-0216647.

PR 07-JUL-2000; 2000US-0216880.

PR 11-JUL-2000; 2000US-0217487.

PR 11-JUL-2000; 2000US-0217496.

PR 14-JUL-2000; 2000US-0218290.

PR 26-JUL-2000; 2000US-0220963.

PR 26-JUL-2000; 2000US-0220964.

PR 14-AUG-2000; 2000US-0224518.

PR 14-AUG-2000; 2000US-0224519.

PR 14-AUG-2000; 2000US-0225213.

PR 14-AUG-2000; 2000US-0225214.

PR 14-AUG-2000; 2000US-0225266.

PR 14-AUG-2000; 2000US-0225267.

PR 14-AUG-2000; 2000US-0225268.

PR 14-AUG-2000; 2000US-0225270.

PR 14-AUG-2000; 2000US-0225447.

PR 14-AUG-2000; 2000US-0225757.

PR 14-AUG-2000; 2000US-0225758.

PR 14-AUG-2000; 2000US-0225759.

PR 18-AUG-2000; 2000US-0226279.

PR 22-AUG-2000; 2000US-0226681.

PR 22-AUG-2000; 2000US-0226868.

PR 22-AUG-2000; 2000US-0227182.

PR 23-AUG-2000; 2000US-0227009.

PR 30-AUG-2000; 2000US-0228924.

PR 01-SEP-2000; 2000US-0229287.

PR 01-SEP-2000; 2000US-0229343.

PR 01-SEP-2000; 2000US-0229344.

PR 01-SEP-2000; 2000US-0229345.

PR 05-SEP-2000; 2000US-0229509.

PR 05-SEP-2000; 2000US-0229513.

PR 06-SEP-2000; 2000US-0230437.

PR 06-SEP-2000; 2000US-0230438.

PR 08-SEP-2000; 2000US-0231242.

PR 08-SEP-2000; 2000US-0231243.

PR 08-SEP-2000; 2000US-0231244.

PR 08-SEP-2000; 2000US-0231143.

PR 08-SEP-2000; 2000US-0231144.

PR 08-SEP-2000; 2000US-0232080.

PR 08-SEP-2000; 2000US-0232081.

PR 12-SEP-2000; 2000US-0232397.

PR 14-SEP-2000; 2000US-0232398.

PR 14-SEP-2000; 2000US-0232399.

PR 14-SEP-2000; 2000US-0232401.

PR 14-SEP-2000; 2000US-0233063.

PR 14-SEP-2000; 2000US-0233064.

PR 14-SEP-2000; 2000US-0233065.

PR 21-SEP-2000; 2000US-0234223.

PR 21-SEP-2000; 2000US-0234274.

PR 25-SEP-2000; 2000US-0234997.

PR 25-SEP-2000; 2000US-0234998.

PR 26-SEP-2000; 2000US-0235484.

PR 27-SEP-2000; 2000US-0235836.

PR 27-SEP-2000; 2000US-0236327.

PR 29-SEP-2000; 2000US-0236367.

PR 29-SEP-2000; 2000US-0236368.

PR 29-SEP-2000; 2000US-0236369.

PR 29-SEP-2000; 2000US-0236370.

PR 02-OCT-2000; 2000US-0236802.

PR 02-OCT-2000; 2000US-0237037.

PR 02-OCT-2000; 2000US-0237038.

PR 02-OCT-2000; 2000US-0237039.

PR 02-OCT-2000; 2000US-0237040.

PR 13-OCT-2000; 2000US-0239935.

PR 13-OCT-2000; 2000US-0239937.

PR 20-OCT-2000; 2000US-0240960.

PR 20-OCT-2000; 2000US-0241221.

PR 20-OCT-2000; 2000US-0241785.

PR 20-OCT-2000; 2000US-0241786.

PR 20-OCT-2000; 2000US-0241787.

PR 20-OCT-2000; 2000US-0241808.

PR 20-OCT-2000; 2000US-0241809.

PR 20-OCT-2000; 2000US-0241826.

PR 01-NOV-2000; 2000US-0244617.

PR 08-NOV-2000; 2000US-0246474.

PR 08-NOV-2000; 2000US-0246475.

PR 08-NOV-2000; 2000US-0246476.

PR 08-NOV-2000; 2000US-0246477.

PR 08-NOV-2000; 2000US-0246478.

PR 08-NOV-2000; 2000US-0246523.

PR 08-NOV-2000; 2000US-0246524.

PR 08-NOV-2000; 2000US-0246525.

PR 08-NOV-2000; 2000US-0246526.

PR 08-NOV-2000; 2000US-0246527.

PR 08-NOV-2000; 2000US-0246528.

PR 08-NOV-2000; 2000US-0246532.

PR 08-NOV-2000; 2000US-0246609.

PR 08-NOV-2000; 2000US-0246610.

PR 08-NOV-2000; 2000US-0246611.

PR 08-NOV-2000; 2000US-0246613.

PR 17-NOV-2000; 2000US-0249207.

PR 17-NOV-2000; 2000US-0249208.

PR 17-NOV-2000; 2000US-0249209.

PR 17-NOV-2000; 2000US-0249210.

PR 17-NOV-2000; 2000US-0249211.

PR 17-NOV-2000; 2000US-0249212.

PR 17-NOV-2000; 2000US-0249213.

PR 17-NOV-2000; 2000US-0249214.

PR 17-NOV-2000; 2000US-0249215.

PR 17-NOV-2000; 2000US-0249216.

PR 17-NOV-2000; 2000US-0249217.

PR 17-NOV-2000; 2000US-0249218.

PR 17-NOV-2000; 2000US-0249244.

PR 17-NOV-2000; 2000US-0249245.

PR 17-NOV-2000; 2000US-0249264.

PR 17-NOV-2000; 2000US-0249265.

PR 17-NOV-2000; 2000US-0249267.

PR 17-NOV-2000; 2000US-0249297.

PR 17-NOV-2000; 2000US-0249299.

PR 17-NOV-2000; 2000US-0249300.

PR 01-DEC-2000; 2000US-0250160.

PR 01-DEC-2000; 2000US-0250391.

PR 05-DEC-2000; 2000US-0251030.

PR 05-DEC-2000; 2000US-0251988.

PR 05-DEC-2000; 2000US-0256719.

PR 06-DEC-2000; 2000US-0251479.

PR 08-DEC-2000; 2000US-0251856.

PR 08-DEC-2000; 2000US-0251868.

```
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX PI Rosen CA, Barash SC, Ruben SM;
XX
XX WPI; 2001-465557/50.
XX P-PSDB; AAU18173.
XX
XX Nucleic acid molecules encoding human secreted chromosomal binding
XX proteins, used in preventing, treating or ameliorating a disorder, e.g.
XX Alzheimer's and Parkinson's diseases and cancers -
XX
XX Claim 4; SEQ ID No 30; 561pp; English.
XX
XX The present invention relates to the isolation of novel DNA-binding
XX proteins (AAU18154-AAU18281), and cDNA and genomic sequences encoding
XX for these proteins. DNA-binding proteins such as histones, chromo
XX (chromatin organisation modifier) domain proteins, and Y-box binding
XX proteins may contribute to diseases resulting from aberrant DNA
XX organisation and/or gene transcription. The sequences of the invention
XX are useful in screening assays to identify antagonists and/or agonists
XX that may enhance or block activities mediated by DNA-binding proteins.
XX Blockers of DNA-binding proteins may be useful in treating disorders
XX such as malignant diseases (e.g. cancer), autoimmune disorders
XX (e.g. diabetes mellitus), rheumatic diseases (e.g. rheumatoid
XX arthritis), genetic abnormalities (e.g. cystic fibrosis), infectious
XX diseases (e.g. HIV) and neurological disorders (e.g. Alzheimer's
XX disease). The polynucleotide sequences of the invention may also be
XX used in gene therapy. AAS29030-AAS29157 represent cDNA sequences
XX encoding for novel DNA-binding proteins.
XX Note: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 325 BP; 174 A; 38 C; 36 G; 77 T; 0 other;

Query Match      13.68; Score 55.2; DB 22; Length 325;
Best Local Similarity 60.8%; Pred. No. 0.2;
Matches 90; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

Qy 259 CCGTTTATTGCAATATCGTCAGTTTCCAAATTAAGTCAITTCGAGCCACTACTGAATAAT 318
    || || || || || || || || || || || || || || || || || || || || || ||
Db 104 CCTTATAATTCACTAAATAAGCAATCTATTAGTGTGATTTAGGAATGCTAAATGAT 163
    || || || || || || || || || || || || || || || || || || || || || ||

Qy 319 TTTGTAATCTAACACAGATGCAATAGTTTAAATAAAGTCTTATCTTAACTTTTAAAAAAA 378
    || || || || || || || || || || || || || || || || || || || || || ||
Db 164 TCTGTATTAAATGTAATTAAGATTATCTATTGCAAAAAGATATTTCAAACCTTAAAAAAA 223
    || || || || || || || || || || || || || || || || || || || || || ||

Qy 379 AAAAAAATAAAAAAAAAAAAAAAAAAAAA 406
    || || || || || || || || || || || || || || || || || || || || || ||
Db 224 AAAAAAATAAAAAAAAAAAAAAAAAAAAA 251
    || || || || || || || || || || || || || || || || || || || || || ||

RESULT 10
AAS29124
ID AAS29124 standard; cDNA; 621 BP.
XX
XX AC AAS29124;
XX
XX 21-NOV-2001 (first entry)
XX
XX cDNA encoding for human DNA-binding protein #95.
XX
XX Human; DNA-binding protein; histone; chromo domain protein;
XX chromatin organisation modifier; Y-box binding protein;
XX DNA organisation; gene transcription; malignant disease;
XX autoimmune disorder; rheumatic disease; genetic abnormality;
XX infectious disease; neurological disorder; gene therapy;
```

```
KW immunomodulatory; anti-HIV; anti rheumatic; anti microbial;
KW cytostatic; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO20015162-A1.
XX
XX PD 02-AUG-2001.
XX
XX PF 17-JAN-2001; 2001WO-US01305.
XX
XX 31-JAN-2000; 2000US-0179065.
XX 04-FEB-2000; 2000US-0180628.
XX 24-FEB-2000; 2000US-0184664.
XX 02-MAR-2000; 2000US-0186350.
XX 16-MAR-2000; 2000US-0189874.
XX 17-MAR-2000; 2000US-0190076.
XX 18-APR-2000; 2000US-0198123.
XX 19-MAY-2000; 2000US-0205515.
XX 07-JUN-2000; 2000US-0209467.
XX 28-JUN-2000; 2000US-0214886.
XX 30-JUN-2000; 2000US-0215135.
XX 07-JUL-2000; 2000US-0216647.
XX 07-JUL-2000; 2000US-0216880.
XX 11-JUL-2000; 2000US-0217487.
XX 11-JUL-2000; 2000US-0217496.
XX 14-JUL-2000; 2000US-0218290.
XX 26-JUL-2000; 2000US-0220963.
XX 26-JUL-2000; 2000US-0220964.
XX 14-AUG-2000; 2000US-0224518.
XX 14-AUG-2000; 2000US-0224519.
XX 14-AUG-2000; 2000US-0225213.
XX 14-AUG-2000; 2000US-0225214.
XX 14-AUG-2000; 2000US-0225266.
XX 14-AUG-2000; 2000US-0225267.
XX 14-AUG-2000; 2000US-0225268.
XX 14-AUG-2000; 2000US-0225270.
XX 14-AUG-2000; 2000US-0225447.
XX 14-AUG-2000; 2000US-0225757.
XX 14-AUG-2000; 2000US-0225758.
XX 14-AUG-2000; 2000US-0225759.
XX 18-AUG-2000; 2000US-0226279.
XX 22-AUG-2000; 2000US-0226681.
XX 22-AUG-2000; 2000US-0228668.
XX 22-AUG-2000; 2000US-0227182.
XX 23-AUG-2000; 2000US-0227009.
XX 30-AUG-2000; 2000US-0228924.
XX 01-SEP-2000; 2000US-0229287.
XX 01-SEP-2000; 2000US-0229343.
XX 01-SEP-2000; 2000US-0229344.
XX 01-SEP-2000; 2000US-0229345.
XX 05-SEP-2000; 2000US-0229509.
XX 05-SEP-2000; 2000US-0229513.
XX 06-SEP-2000; 2000US-0230437.
XX 06-SEP-2000; 2000US-0230438.
XX 08-SEP-2000; 2000US-0231242.
XX 08-SEP-2000; 2000US-0231243.
XX 08-SEP-2000; 2000US-0231244.
XX 08-SEP-2000; 2000US-0231413.
XX 08-SEP-2000; 2000US-0231414.
XX 08-SEP-2000; 2000US-0232080.
XX 08-SEP-2000; 2000US-0232081.
XX 12-SEP-2000; 2000US-0231968.
XX 14-SEP-2000; 2000US-0232397.
XX 14-SEP-2000; 2000US-0232398.
XX 14-SEP-2000; 2000US-0232399.
XX 14-SEP-2000; 2000US-0232400.
XX 14-SEP-2000; 2000US-0232401.
XX 14-SEP-2000; 2000US-0233063.
XX 14-SEP-2000; 2000US-0233064.
XX 21-SEP-2000; 2000US-0233065.
XX 21-SEP-2000; 2000US-0234223.
XX 21-SEP-2000; 2000US-0234274.
```



```
XX PN EP1146052-A2.
XX XX
XX PD 17-OCT-2001.
XX XX
XX PF 12-APR-2001; 2001EP-0303488.
XX XX
XX PR 14-APR-2000; 2000US-197279P.
XX XX
XX PA (DUPO ) DU PONT DE NEMOURS & CO E I.
XX XX
XX XX Presnail JK, Weng Z, Wong JF;
XX PI WPI: 2002-001056/01.
XX DR P-PSDB; AAG77934.
XX XX
XX XX New polynucleotides encoding Arthropod defensin polypeptides for
PT improving the microbial resistance of plants and animals by gene
PT therapy -
XX XX
XX PS Claim 6; Page 19; 22pp; English.
XX CC
XX CC The sequence represents a novel Arthropod defensin from Arioipe sp.
CC clone aotic.pk0. The invention relates to novel polynucleotides encoding
CC Arthropod defensin polypeptides. The polypeptides and polynucleotides of
CC the invention have antimicrobial activity. The polynucleotides may be
CC used to genetically engineer cells and organisms, especially plants, to
CC alter their resistance to a wide range of microbial pathogens. The
CC polynucleotides may also have a use in gene therapy.
XX CC
XX SQ Sequence 351 BP; 95 A; 84 C; 69 G; 103 T; 0 other;
Query Match 13.4%; Score 54.6; DB 24; Length 351;
Best Local Similarity 54.9%; Pred. No. 0.26;
Matches 130; Conservative 0; Mismatches 104; Indels 3; Gaps 1;
QY 23 TTTCTCCACTCAGCTTCAAGATGAATCCATAGTATATTTTCATCGTTCGTTGTTGCC 82
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
7 TCTGTGCGACATTTCCAAAAAATAATCGGAGAGTTCTGTGTGATCGCTAGT---C 63
QY 83 TTCTGTATTTGGAGGATGGATTGTAGAAGCTGTTTGGATGTCCTCTTAATGCAGGA 142
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
64 GTCTGTGCTTTGGCCACAGTGACCGGTGAAGCTGTGTTCGGCTGCCCTTCGACCATG 123
QY 143 AAATGCCATAGACATTCGAAAAGTATTCGTCGTAGAGGAGGCTTTTGCAGAGGAACITTC 202
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
124 CAGTGTCAATCATTCGAGGAGCATCAATATAGGGGAGGATACTGCACCAACTTATTC 183
QY 203 AGGACAACCTGGTTTGCTATAGGTGAAAATCCGATTTATTTGCCATATGGAGACC 259
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
184 AAGCGCAGCTGCAAGTGTACGGATGATGACCCCTCCCTCTCAGACAGGAGGCC 240
RESULT 12
AAS60450/c
ID AAS60450 standard; cDNA; 425 BP.
XX AC AAS60450;
XX XX
XX DT 29-JAN-2002 (first entry)
XX DE
XX DE Human cancer agent-sensitive marker #181.
KW Human; cancer cell marker; TAXOL; cytostatic; tumour; carcinoma;
KW squamous cell carcinoma; sarcoma; fibrosarcoma; leukaemia;
KW lymphocytic leukaemia; lymphoma; plasmocytoma; reticulum cell sarcoma;
KW Hodgkin's disease; glioma; ss.
XX OS Homo sapiens.
XX XX
XX PN WO200179556-A2.
XX XX
XX PD 25-OCT-2001.
```

```
XX 13-APR-2001; 2001WO-US12132.
XX PF
XX XX
XX PR 14-APR-2000; 2000US-197538P.
XX XX
XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX XX
XX PI Lillie J, Brown JL, Bolt A, Van Huffel C;
XX XX
XX DR WPI: 2001-602933/68.
XX XX
XX XX Novel nucleic acid, used as a marker to determine the effectiveness of
PT using TAXOL to treat cancer cell growth in individuals -
XX PT
XX PS Claim 1; Page 221; 527pp; English.
XX XX
XX CC The invention relates to 1046 novel nucleic acids which are used as
CC markers for determining the sensitivity of a cancer cell to the
CC anticancer agent TAXOL. Cancer cells can be treated with TAXOL when
CC they are shown to express one of the 242 sensitivity markers or the
CC cells are shown not to express one of the 804 resistance markers.
CC The methods can be used to determine the effectiveness of TAXOL
CC in the treatment of cancer cell growth in an individual. The markers
CC can be used as targets in developing anti-cancer agents such as
CC chemotherapeutic compounds. The markers can also be used as targets in
CC developing treatments for cancer, particularly those cancers which
CC display resistance to agents and exhibit expression of the markers. The
CC anticancer agents developed by the novel method can be used to treat
CC cancer. Probes based on the markers can be used to detect transcripts or
CC genomic sequences corresponding to the markers, in the identification of
CC cells or tissues which mis-express the protein. Cancers which may
CC be targeted include carcinoma (e.g. squamous cell carcinoma),
CC sarcoma (e.g. fibrosarcoma) leukaemia (e.g. lymphocytic leukaemia),
CC lymphoma, plasmocytoma, reticulum cell sarcoma, Hodgkin's disease and
CC tumours (e.g. glioma). The present sequence is one of the 1046
CC novel cancer cell markers.
XX CC
XX SQ Sequence 425 BP; 159 A; 41 C; 28 G; 194 T; 3 other;
Query Match 13.4%; Score 54.6; DB 22; Length 425;
Best Local Similarity 53.4%; Pred. No. 0.26;
Matches 111; Conservative 0; Mismatches 97; Indels 0; Gaps 0;
QY 199 TTTCAGACAAACCTCGCTTGTCTATAGGTGAAAATCGATTTATTTGCCATATGGAGAC 258
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
215 TTTTAAAAAAGACGGGGGGGAAAAAATAAAACCTTTTTTTTTTTTGGGGGAA 156
QY 259 CCGTTTTTATTGAATATCGTCAGTTTCCCAATTAAGTCATTTCCGAGCCATCTGAATAAT 318
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
155 ATTTTTTTTTTTTTTTTTTTTTTTTAAAAATTTTTTTTTTTTNNNAAAAAAAAAAAAA 96
QY 319 TTTGTAATCTAACACAGATGCAATAGTTTTAAATAAACTTATATCTTAACTTTTAAAAAAA 378
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
95 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 36
QY 379 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | |
35 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 8
RESULT 13
ABQ54618
ID ABQ54618 standard; cDNA; 2736 BP.
XX AC ABQ54618;
XX XX
XX DT 22-AUG-2002 (first entry)
XX DE
XX DE Human ovarian antigen HDPPN96 cDNA, SEQ ID NO:498.
KW Human; ovarian antigen; ovary; ovarian; breast; cancer; tumour;
KW ovarian cancer; breast cancer; tumour; reproductive system disorder;
KW infertility; pregnancy disorder; anovulation; polycystic ovary syndrome;
```

KW	PCOS; ovarian cyst; dysmenorrhoea; endocrine disorder; infection;
KW	inflammatory condition; immune disorder; blood disorder;
KW	cardiovascular disorder; respiratory disorder; neurological disorder;
KW	gastrointestinal disorder; urinary system disorder; drug screening;
KW	gene therapy; chromosome mapping; forensic analysis;
KW	antibody preparation; cytostatic; immunomodulatory; neuroprotective;
KW	antiinflammatory; gynaecological; reproductive; chromosome 1q22;
XX	gene; ss.
XX	
OS	Homo sapiens.
XX	
XX	WO200200677-A1.
PN	
XX	
XX	03-JAN-2002.
PD	
XX	
XX	07-JUN-2001; 2001WO-US18569.
PF	
XX	
XX	07-JUN-2000; 2000US-209467P.
PR	
XX	
XX	(HUMA-) HUMAN GENOME SCI INC.
XX	
PA	
PI	Birse CE, Rosen CA;
XX	
XX	WPI; 2002-147878/19.
DR	
DR	P-PSDB; ABP41541.
XX	
XX	
PT	Isolated nucleic acid molecules encoding novel ovarian polypeptides,
PT	useful in the prevention, treatment and diagnosis of cancer (e.g.
PT	ovarian cancer), immune disorders, cardiovascular disorders and
PT	neurological diseases -
XX	
XX	Claim 1; SEQ ID NO 498; 2922pp; English.

Qy	165	GTAATCTGCTAGAGGAGCGTTTGGCAGAGGAACCTTCAGGACAACCTGCCTTGCTATA	224
Dd	2492	AAATGTACATATACCTGGTTGAAATACAACTACTATACATACACACCACCATATATACTA	2551
Qy	225	GGTGAAAATCCGAATTATTGGCATAATGGAGACCGTTTTTATTGCAATATCGTCAGTTT	284
Dd	2552	GCCTGTTAACTATGAATGGGGTATGGGATGCGCTTTTAAATTTTCATAGTTTTTTTT	2611
Qy	285	CCAATTAAGTCATTTTCGAGCCATCTAGTAATAATTTTCTAATCTAACACAGATGCAATA	344
Dd	2612	TTAATAAAATGGCATATTTTGGCATCTACAACCTTCATATAATTGAAAAAATAATAACAT	2671
Qy	345	GTTTAAATAAAC'TAT'ACTTTTAACTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	404
Dd	2672	TATCTTTTTTGTGAAAAAANAANAANAANAANAANAANAANAANAANAANAANAANA	2731
Qy	405	AA 406	
Dd	2732	AA 2733	
 RESULT 14 ABV37528/c			
ID	ABV37528 standard; cDNA; 372 BP.		
XX	ABV37528;		
DT	16-SEP-2002 (first entry)		
DE	Human prostate expression marker cdNA 37519.		
XX	Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker		
KW	pharmacogenomic marker; gene; ss.		
OS	Homo sapiens.		
PN	WO200160860-A2.		
PD	23-AUG-2001.		
PF	20-FEB-2001; 2001WO-US05171.		
PR	17-FEB-2000; 2000US-183319P.		
PR	16-MAR-2000; 2000US-189862P.		
PR	25-MAY-2000; 2000US-207454P.		
PR	09-JUN-2000; 2000US-211314P.		
PR	18-JUL-2000; 2000US-219007P.		
PR	13-DEC-2000; 2000US-255281P.		
PA	(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.		
PI	Schlegel R, Endege WO, Monahan JE;		
DR	WPI; 2001-662795/76.		
PT	Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer, stage of prostate cancer -		
PS	Claim 1; Page 7697-7698; 11750pp; English.		
CC	The invention relates to an isolated nucleic acid molecule (I) comprising a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the specification or its complement. (I) is useful for:		
CC	(a) assessing whether a patient is afflicted with prostate cancer;		
CC	(b) monitoring the progression of prostate cancer in a patient;		
CC	(c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient;		
CC	(d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient;		
CC	(e) selecting a composition for inhibiting prostate cancer in a patient;		
CC	(f) assessing the prostate cell carcinogenic potential of a compound;		

CC (g) determining whether prostate cancer has metastasized in a patient;
CC (h) assessing the aggressiveness or indolence of prostate cancer in a
CC patient;
CC (i) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX
SQ Sequence 372 BP; 141 A; 37 C; 50 G; 144 T; 0 other;

Query Match 13.4%; Score 54.4; DB 23; Length 372;
Best Local Similarity 57.7%; Pred. No. 0.28; Indels 0; Gaps 0;
Matches 97; Conservative 0; Mismatches 71;
QY 239 TTATTGGCCATAATGGAGACCGTTTATTGAATATGTCAGTTTCCAAATTAAGTCAT 298
DB 295 TTTTATTTTAAATTAACATTTTAAATTCCTTTTAAAGCCCATTAATTTTTC 236
QY 299 TTCGAGCCATACGTAATAATTTGTAATCTAACACACAGATGCAATAGTTTAAATAAAGCTT 358
DB 235 TTTTAATAAATTTTATTTTATTTTAAATATACCCCTTTTATTTTAAATTAATTAATTT 176
QY 359 ATACTTAACCTTTTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 406
DB 175 TTTTGTGTTAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 128

RESULT 15

ABV10351/c
ID ABV10351 standard; cDNA; 447 BP.

AC ABV10351;

DT 13-SEP-2002 (first entry)

XX Human prostate expression marker cDNA 10342.

XX Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW pharmacogenomic marker; gene; ss.

OS Homo sapiens.

PN WO200160860-A2.

XX 23-AUG-2001.

XX 20-FEB-2001; 2001WO-US05171.

XX 17-FEB-2000; 2000US-183319P.

XX 16-MAR-2000; 2000US-189862P.

PR 25-MAY-2000; 2000US-207454P.

PR 09-JUN-2000; 2000US-211314P.

PR 18-JUL-2000; 2000US-219007P.

PR 13-DEC-2000; 2000US-255281P.

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX Schlegel R, Endege WO, Monahan JE;

XX WPI; 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of
PT prostate cells and correlating with presence of prostate cancer, useful
PT for detecting presence of prostate cancer, stage of prostate cancer -

PS Claim 1; Page 1663; 11750pp; English.

XX The invention relates to an isolated nucleic acid molecule (I) comprising
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC specification or its complement. (I) is useful for:
CC (a) assessing whether a patient is afflicted with prostate cancer;
CC (b) monitoring the progression of prostate cancer in a patient;
CC (c) assessing the efficacy of a test compound to inhibit prostate
CC cancer in a patient;
CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
CC in a patient;

CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound;
CC (g) determining whether prostate cancer has metastasized in a patient;
CC (h) assessing the aggressiveness or indolence of prostate cancer in a
CC patient;
CC (i) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX
SQ Sequence 447 BP; 98 A; 75 C; 91 G; 183 T; 0 other;

Query Match 13.4%; Score 54.4; DB 23; Length 447;
Best Local Similarity 65.8%; Pred. No. 0.28; Indels 0; Gaps 0;
Matches 79; Conservative 0; Mismatches 41;

QY 287 AATTAAAGTCATTTTCGAGCCATACCTGAATAATTTTGTAAATCTTAACAACAGATGCAATAGT 346
DB 428 AATAAATAAATTTAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 369
QY 347 TTAATAAAGTATACCTTAACCTTTTAAAAAATAAATAAATAAATAAATAAATAAATAA 406
DB 368 TAAATAAAGTAAATTTAAAGCTTAAAAAATAAATAAATAAATAAATAAATAAATAAATAA 309

Search completed: May 5, 2003, 19:18:44
Job time : 238 secs

GenCore version 5.1.5
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 5, 2003, 19:18:48 ; Search time 50 seconds
(without alignments)
2490.215 Million cell updates/sec

Title: US-09-829-481-3
Perfect score: 406
Sequence: 1 cttctactacaatcactaagt.....aaaaaaaaaaaaaaaaaaaaa 406

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues
Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA.*
1: /cgn2.6/ptodata/1/ina/5A-COMB.seq.*
2: /cgn2.6/ptodata/1/ina/5B-COMB.seq.*
3: /cgn2.6/ptodata/1/ina/6A-COMB.seq.*
4: /cgn2.6/ptodata/1/ina/6B-COMB.seq.*
5: /cgn2.6/ptodata/1/ina/PCTUS-COMB.seq.*
6: /cgn2.6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	55.6	13.7	1652	4	US-09-627-650B-2
2	55.6	13.7	1652	4	US-09-436-063C-2
3	52.8	13.0	3581	2	US-08-738-349-1
4	52.4	12.9	958	2	US-08-757-046A-5
5	52.4	12.9	958	3	US-09-447-208-5
6	52.4	12.9	958	3	US-09-135-988-5
7	52.4	12.9	958	4	US-09-277-716-5
8	52.4	12.9	958	4	US-08-597-274A-5
9	52.4	12.9	958	4	US-08-908-909-5
10	52.4	12.9	958	4	US-09-609-161B-5
11	52.4	12.9	958	4	US-08-990-103-5
12	52	12.8	857	1	US-08-308-883-1
13	52	12.8	857	1	US-08-730-163-1
14	52	12.8	857	4	US-08-256-799-1
15	52	12.8	857	4	US-08-462-437-1
16	50.8	12.5	1582	3	US-08-545-196B-10
17	50.8	12.5	1582	3	US-08-545-196B-12
18	50.6	12.5	1411	4	US-08-964-127-5
19	50.6	12.5	1411	4	US-09-496-692-5
20	50.6	12.5	1641	1	US-08-300-903A-8
21	50.4	12.4	2360	3	US-08-836-567-9
22	50.4	12.4	3927	4	US-09-293-238B-1
23	50.4	12.4	3933	1	US-08-199-776-1
24	50.4	12.4	3933	3	US-08-663-731-1
25	50.4	12.4	3933	3	US-08-879-338-1
26	50.4	12.4	3933	5	PCT-US95-02044-1
27	50.2	12.4	1474	4	US-08-821-994-64

28	50.2	12.4	2790	3	US-08-800-291B-1
29	50	12.3	1522	4	US-09-413-574-1
30	49.6	12.2	2671	6	5168051-9
31	49.4	12.2	458	1	US-08-524-757-1
32	48.4	11.9	841	4	US-09-004-731-40
c 33	48.4	11.9	841	4	US-09-004-731-42
34	48.4	11.9	841	4	US-09-032-215-46
c 35	48.4	11.9	841	4	US-09-032-215-48
36	48.4	11.9	841	4	US-08-749-699-40
c 37	48.4	11.9	841	4	US-08-749-699-42
38	48.4	11.9	841	4	US-09-004-729-40
c 39	48.4	11.9	841	4	US-09-004-729-42
40	48.4	11.9	1558	1	US-08-455-550-7
41	48.4	11.9	1736	3	US-09-182-816-22
c 42	48.4	11.9	1736	3	US-09-182-816-24
43	48.4	11.9	1736	3	US-09-471-528-22
c 44	48.4	11.9	1736	3	US-09-471-528-24
45	48.4	11.9	1736	4	US-09-634-530-22

ALIGNMENTS

RESULT 1
US-09-627-650B-2
; Sequence 2, Application US/09627650B
; Patent No. 6406872
; GENERAL INFORMATION:
; APPLICANT: Bamber, Bruce
; TITLE OF INVENTION: Neuromuscular Junction GABA Receptors and
; FILE REFERENCE: 21101.0009U3
; CURRENT APPLICATION NUMBER: US/09/627,650B
; CURRENT FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: 09/436,063
; PRIOR FILING DATE: 1999-11-08
; PRIOR APPLICATION NUMBER: 60/107,727
; PRIOR FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1652
; TYPE: DNA
; ORGANISM: Caenorhabditis elegans
US-09-627-650B-2

Query Match	13.7%	Score 55.6;	DB 4;	Length 1652;
Best Local Similarity	55.1%	Pred. NO. 0.0017;		
Matches 109;	Conservative 0;	Mismatches 89;	Indels 0;	Gaps 0;
QY	209	ACCTCGCTTTCGTATAGGTGAAATCCGATTTTATTTGCCATAATCGACCGCTTTTAT 268		
Db	1450	ACCTTCATTAATCTCAATCCAACTTCCATCATATTTCCATTCGAATATCTCTTTCT 1509		
QY	269	TGAATATCGTCAGTTTCCAAATTAAGTCATTTTCGACCATACCTGAATATTTGTAATCT 328		
Db	1510	TCCACAGAAGCCTTTTTCGTTTTTTTATTTGATTTATTTACGGATTTTAGATAAT 1569		
QY	329	AACAACAGATGCAATAGTTTAAATAACTTACTTAACTTTAAAAAATAAAAAA 388		
Db	1570	GCACAGATGCCCTCATTCGTCAATAAATTTATTTTAAATTTGCGAAAAAATAAAAA 1629		
QY	389	AAAAAAAAAAAAAAAAAAAA 406		
Db	1630	AAAAAAAAAAAAAAAAAAAA 1647		

RESULT 2
US-09-436-063C-2
; Sequence 2, Application US/09436063C
; Patent No. 6407210
; GENERAL INFORMATION:

```
; APPLICANT: Bamber, Bruce
; APPLICANT: Jorgensen, Erik
; TITLE OF INVENTION: Nematode Neuromuscular Junction GABA Receptors and
; TITLE OF INVENTION: Methods Related Thereto
; FILE REFERENCE: P-1095corrected
; CURRENT APPLICATION NUMBER: US/09/436,063C
; CURRENT FILING DATE: 1999-11-08
; PRIOR APPLICATION NUMBER: 60/107727
; PRIOR FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1652
; TYPE: DNA
; ORGANISM: Caenorhabditis elegans
US-09-436-063C-2

Query Match          13.7%; Score 55.6; DB 4; Length 1652;
Best Local Similarity 55.1%; Pred. No. 0.0017;
Matches 109; Conservative 0; Mismatches 89; Indels 0; Gaps 0;

Qy 209 ACCTGCGTTTCTATAGTGAAATCCGATTATTTGCCATAATGGAGACCGCTTTTAT 268
      ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1450 ACCTTCAATTAATCAATCAACATCTCTCATCATCTTCCATTCGAATATCTCTTTCT 1509

Qy 269 TGAATATCGTCAGTTTCCAAATAAGTCATTTTCGAGCCATACGAATAATTTGTATCT 328
      ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1510 TGCACAGAAGCCTTTTTCGTTTTTTTATTGATTTATTTTACGGGATTTTATAGATAAT 1569

Qy 329 AACACACAGATGCAATAGTTTAAATAAACTTATACCTTTTAAATAAAAAA 388
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1570 GCACAGATGCCTCATCTGCTCAATATAATTTATTTATGTCGAAAAA 1629

Qy 389 AAAAAA 406
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1630 AAAAAA 1647

RESULT 3
US-08-738-349-1
; Sequence 1, Application US/08738349
; Patent No. 5869638
; GENERAL INFORMATION:
; APPLICANT: Takeshita, Sunao
; APPLICANT: Okazaki, Makoto
; APPLICANT: Kawai, Shinji
; APPLICANT: Tsujimura, Atsushi
; APPLICANT: Amann, Egon
; TITLE OF INVENTION: Bone-Related Cadherin-Like Protein and
; TITLE OF INVENTION: Process for Its Production
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/738,349
; FILING DATE: 25-OCT-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/364,439
; FILING DATE:
; APPLICATION NUMBER: US 08/112,061
; FILING DATE: 26-AUG-1993
```

```
; ATTORNEY/AGENT INFORMATION:
; NAME: Barker, M. P.
; REGISTRATION NUMBER: 32,013
; REFERENCE/DOCKET NUMBER: 02481.1323-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3581 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:
; ORGANISM: Mus musculus
; STRAIN: osteoblastic cell line MC3T3E1
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 284..2671
US-08-738-349-1

Query Match          13.0%; Score 52.8; DB 2; Length 3581;
Best Local Similarity 71.9%; Pred. No. 0.0071;
Matches 69; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

Qy 311 TGAATAATTTTGTATCTTAACAACAGATGCAATAGTTTAAATAAACTTATACCTTAAC 370
      ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3443 TGCCTTAATATGAGCTTCAATATAAGAACCACTTGAATATAAAAAAGATCTTTT 3502

Qy 371 TAAAAA 406
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 3503 TAAAAA 3538

RESULT 4
US-08-757-046A-5
; Sequence 5, Application US/08757046A
; Patent No. 5876995
; GENERAL INFORMATION:
; APPLICANT: Bryan, Bruce
; TITLE OF INVENTION: BIOLUMINESCENT ARTICLES OF MANUFACTURE
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Brown, Martin, Haller & McClain
; STREET: 1660 Union Street
; CITY: San Diego
; STATE: CA
; COUNTRY: USA
; ZIP: 92101-2926
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/757,046A
; FILING DATE: 11-25-96
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/597,274
; FILING DATE: 02-06-96
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie L
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6680-105B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-238-0999
; TELEFAX: 619-238-0062
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 958 base pairs
```


TELEPHONE: 619-238-0999
TELEFAX: 619-238-0062
TELEX:

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 958 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

FRAGMENT TYPE:

ORIGINAL SOURCE:

FEATURE:

NAME/KEY: Coding Sequence

LOCATION: 115...702

OTHER INFORMATION: apoaeguorin-encoding gene

PUBLICATION INFORMATION:

DOCUMENT NUMBER: 5,093,240

AUTHORS: Inouye et al.

JOURNAL: Proc. Natl. Acad. Sci. U.S.A.

VOLUME: 82

PAGES: 3154-3158

DATE: (1985)

US-08-597-274A-5

Query Match 12.9%; Score 52.4; DB 4; Length 958;

Best Local Similarity 57.2%; Pred. No. 0.0072;

Matches 95; Conservative 0; Mismatches 71; Indels 0; Gaps 0;

QY 241 ATTTGCCATAATGGAGACCCGTTTTTATGATATCGTCAGTTTCCCAATTAAGTCATTT 300

Db 779 ATTTCCAAATTTTGAACGATTTCAATCGTTGTGTTGATTTTGTCTAATTAGGAACAGA 838

QY 301 CGAGCCACTACTGAATAATTTTCTAATCTAACACAGATGCAATAGTTTAAATAAATCTAT 360

Db 839 TTAATTCGAATGATTAGTTGTTTTTAAATCAACAGAACTTACAATCGAAAAAGTAAAA 898

QY 361 ACTTAACTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406

Db 899 AAA 944

RESULT 9

US-08-908-909-5

Sequence 5, Application US/08908909

Patent No. 6416960

GENERAL INFORMATION:

APPLICANT: Bryan, Bruce

TITLE OF INVENTION: DETECTION AND VISUALIZATION OF

TITLE OF INVENTION: NEOPlastic TISSUES AND OTHER TISSUES

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Brown, Martin, Haller & McClain

STREET: 1660 Union Street

CITY: San Diego

STATE: CA

COUNTRY: USA

ZIP: 92101-2926

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq Version 1.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/908,909

FILING DATE: 08-AUG-1997

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/023,374

FILING DATE: 08-AUG-1996

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie L.
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 6680-108

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-238-0999

TELEFAX: 619-238-0062

TELEX:

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 958 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

HYPOTHETICAL: NO

ANTI-SENSE: NO

FRAGMENT TYPE:

ORIGINAL SOURCE:

FEATURE:

NAME/KEY: Coding Sequence

LOCATION: 115...702

OTHER INFORMATION: apoaeguorin-encoding gene

PUBLICATION INFORMATION:

AUTHORS: Inouye et al.

JOURNAL: Proc. Natl. Acad. Sci. U.S.A.

VOLUME: 82

PAGES: 3154-3158

DATE: (1985)

DOCUMENT NUMBER: 5,093,240

US-08-908-909-5

Query Match 12.9%; Score 52.4; DB 4; Length 958;

Best Local Similarity 57.2%; Pred. No. 0.0072;

Matches 95; Conservative 0; Mismatches 71; Indels 0; Gaps 0;

QY 241 ATTTGCCATAATGGAGACCCGTTTTTATGATATCGTCAGTTTCCCAATTAAGTCATTT 300

Db 779 ATTTCCAAATTTTGAACGATTTCAATCGTTGTGTTGATTTTGTCTAATTAGGAACAGA 838

QY 301 CGAGCCACTACTGAATAATTTTGTAACTCTAACACAGATGCAATAGTTTAAATAAATCTAT 360

Db 839 TTAATTCGAATGATTAGTTGTTTTTAAATCAACAGAACTTACAATCGAAAAAGTAAAA 898

QY 361 ACTTAACTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406

Db 899 AAA 944

RESULT 10

US-09-609-161B-5

Sequence 5, Application US/09609161B

Patent No. 6436682

GENERAL INFORMATION:

APPLICANT: Bryan, Bruce

APPLICANT: Szent-Gyorgyi, Christopher

APPLICANT: PROMUNE, LTD.

TITLE OF INVENTION: LUCIFERASES, FLUORESCENT PROTEINS, NUCLEIC ACIDS ENCODING THE

TITLE OF INVENTION: AND FLUORESCENT PROTEINS AND THE USE THEREOF IN DIAGNOSTICS,

TITLE OF INVENTION: SCREENING AND NOVELTY ITEMS

FILE REFERENCE: 24729-121B

CURRENT APPLICATION NUMBER: US/09/609,161B

CURRENT FILING DATE: 2000-06-30

PRIOR APPLICATION NUMBER: 09/277,716

PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: 60/102,939

PRIOR FILING DATE: 1998-10-01

PRIOR APPLICATION NUMBER: 60/089,367

PRIOR FILING DATE: 1998-06-15

PRIOR APPLICATION NUMBER: 60/079,624

PRIOR FILING DATE: 1998-03-27

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PatentIn Ver. 2.0

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/037,675,
; FILING DATE: 02-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/033,745
; FILING DATE: 12-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Seidman, Stephanie L
; REGISTRATION NUMBER: 33,779
; REFERENCE/DOCKET NUMBER: 6680-112
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-238-0999
; TELEFAX: 619-238-0062
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 958 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 115..702
; OTHER INFORMATION: apoaeguorin-encoding gene
; PUBLICATION INFORMATION:
; AUTHORS: Inouye et al.
; JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
; VOLUME: 82
; PAGES: 3154-3158
; DATE: (1985)
; DOCUMENT NUMBER: 5,093,240
; US-08-990-103-5

Query Match 12.9%; Score 52.4; DB 4; Length 958;
Best Local Similarity 57.2%; Pred. No. 0.0072;
Matches 95; Conservative 0; Mismatches 71; Indels 0; Gaps

QY 241 ATTTGCCAATAATCGAGACCCGTTTTATTGAATATCGTCAGTTCCTCAATTAAAGTCATTT 300
Db 779 ATTTCCAAATTTTGACGATTTCAATCGTTGTGGTATTGTAATTAGGAACAGA 838
QY 301 CGAGCCACTACTGAATAATTTTGTAACTCTAACACAGATGCAATAGTTTAAATAAACTTAT 360
Db 839 TTAATCGAATGATTAGTTGTTTTTTTAAACAACAGAACTTCAAAATCGAAAAGTAAAA 898
QY 361 ACTTAACCTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406
Db 899 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 944

RESULT 12
US-08-308-883-1
; Sequence 1, Application US/08308883
; Patent No. 5576300
; GENERAL INFORMATION:
; APPLICANT: Mukerji, P.
; APPLICANT: Prieto, P. A.
; APPLICANT: Seo, A. E.-Y.
; APPLICANT: Baxter, J. H.
; APPLICANT: Cummings, R.D.
; TITLE OF INVENTION: Method for Inhibition of Human Rotavirus Infection
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lonnie R. Drayer
; ADDRESSEE: ROSS Products Division
; ADDRESSEE: Abbott Laboratories
; STREET: 625 Cleveland Avenue
; CITY: Columbus

```

```
; STATE: Ohio
; COUNTRY: United States
; ZIP: 43215
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch, 1.44 Mb storage
; OPERATING SYSTEM: Macintosh System 7.1
; SOFTWARE: ClarisWorks 1.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/308.883
; FILING DATE: 16-SEP-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: No. 5576300 applicable
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (614) 624-3774
; TELEFAX: (614) 624-3074
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 857 base pairs
; TYPE: Nucleic acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: cDNA
; DESCRIPTION: Human milk kappa-casein
; HYPOTHETICAL: NO
; ANTI-SENSE:
; FRAGMENT TYPE:
; ORIGINAL SOURCE: Human
; ORGANISM: Homo sapiens
; STRAIN:
; INDIVIDUAL ISOLATE:
; DEVELOPMENTAL STAGE: Adult
; HAPLOTYPE:
; TISSUE TYPE: Mammary gland
; CELL TYPE:
; CELL LINE:
; ORGANELLE:
; IMMEDIATE SOURCE: Human Mammary Gland
; LIBRARY:
; CLONE:
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT:
; MAP POSITION:
; UNITS:
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 45...593
; IDENTIFICATION METHOD: DNA sequencing and restriction analysis
; OTHER INFORMATION: The encoded product of nucleotide SEQ ID NO: 1: is the human
; PUBLICATION INFORMATION:
; AUTHORS: L. Hansson et al
; TITLE: DNA Encoding Kappa-Casein, Process for Obtaining the Protein and Use The
; JOURNAL:
; VOLUME:
; ISSUE:
; PAGES:
; DATE:
; DOCUMENT NUMBER: PCT/WO93/15196
; FILING DATE: 25-JAN-1993
; PUBLICATION DATE: 05-AUG-1993
; RELEVANT RESIDUES IN SEQ ID NO:
;
; US-08-308-883-1
;
; Query Match 12.8%; Score 52; DB 1; Length 857;
; Best Local Similarity 67.6%; Pred. No. 0.0086;
; Matches 73; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
;
; QY 299 TTCGAGCCATCTGAATAATTTTGTAACTCAACACAGATGCAATAGTTTAAATAAACTT 358
;   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
; Db 741 TTCATGCCACATTCATATTTTGATCTTGCACATAAAGCCCAACTGATTCGCAAAAAA 800
;
; QY 359 ATACTTAACCTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406
```

Db 801 AAA 848

RESULT 13

US-08-730-163-1

Sequence 1, Application US/08730163

Patent No. 5712250

GENERAL INFORMATION:

APPLICANT: Mukerji, P.

APPLICANT: Prieto, P. A.

APPLICANT: Seo, A. E.-Y.

APPLICANT: Baxter, J. H.

APPLICANT: Cummings, R.D.

TITLE OF INVENTION: Product for Inhibition of Human Rotavirus Infection.

NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lonnie R. Drayer

ADDRESSEE: Ross Products Division

ADDRESSEE: Abbott Laboratories

STREET: 625 Cleveland Avenue

CITY: Columbus

STATE: Ohio

COUNTRY: United States

ZIP: 43215

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb storage (B)COMPUTER: Apple Macintosh

OPERATING SYSTEM: Macintosh System 7.1(D)SOFTWARE: ClarisWorks 1.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/730.163

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/308.882

FILING DATE: 16-SEP-1994

TELECOMMUNICATION INFORMATION:

TELEPHONE: (614) 624-3774

TELEFAX: (614) 624-3074

TELEX: No. 5712250e

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 857 base pairs

TYPE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

DESCRIPTION: Human milk kappa-casein

HYPOTHETICAL: NO

ANTI-SENSE:

FRAGMENT TYPE:

ORIGINAL SOURCE: Human

ORGANISM: Homo sapiens

STRAIN:

INDIVIDUAL ISOLATE:

DEVELOPMENTAL STAGE: Adult

HAPLOTYPE:

TISSUE TYPE: Mammary gland

CELL TYPE:

CELL LINE:

ORGANELLE:

IMMEDIATE SOURCE: Human Mammary Gland

LIBRARY:

CLONE:

POSITION IN GENOME:

CHROMOSOME/SEGMENT:

MAP POSITION:

UNITS:

FEATURE:

NAME/KEY: CDS

LOCATION: 45...593

IDENTIFICATION METHOD: DNA sequencing and restriction analysis

OTHER INFORMATION: The encoded product of nucleotide SEQ ID NO: 1: is the human

PUBLICATION INFORMATION:

AUTHORS: L. Hansson et al

TITLE: DNA Encoding Kappa-Casein, Process for Obtaining the Protein and Use The

JOURNAL:

VOLUME:

ISSUE:

PAGES:

DATE:

DOCUMENT NUMBER: PCT/WO93/15196

FILING DATE: 25-JAN-1993

PUBLICATION DATE: 05-AUG-1993

RELEVANT RESIDUES IN SEQ ID NO:

;; AUTHORS: L. Hansson et al
;; TITLE: DNA Encoding Kappa-Casein, Process for Obtaining the Protein and Use The
;; JOURNAL:
;; VOLUME:
;; ISSUE:
;; PAGES:
;; DATE:
;; DOCUMENT NUMBER: PCT/WO93/15196
;; FILING DATE: 25-JAN-1993
;; PUBLICATION DATE: 05-AUG-1993
;; RELEVANT RESIDUES IN SEQ ID NO:
US-08-730-163-1

Query Match 12.8%; Score 52; DB 1; Length 857;
Best Local Similarity 67.6%; Pred. No. 0.0086;
Matches 73; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 299 TTCGAGCCACTGTAATAATTTTGTAACTCAACAACAGATGCAATAGTTTAAATAAACTT 358
Db 741 TTCATGCCACATTCATATTTTGTATTCGACATAAAGCCAACTGATTCGCAAAAAA 800

QY 359 ATACITTAACCTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406
Db 801 AAAAAAATAA 848

RESULT 14
US-08-256-799-1
; Sequence 1, Application US/08256799
; Patent No. 6222094
; GENERAL INFORMATION:
; APPLICANT: HANSSON, Lennart
; APPLICANT: STROEMQVIST, Mats
; APPLICANT: BERGSTROEM, Sven
; APPLICANT: HERNELL, Olle
; APPLICANT: TOERNELL, Jan
; TITLE OF INVENTION: DNA ENCODING KAPPA-CASEIN, PROCESS FOR
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/256,799
; FILING DATE: 06-DEC-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DK 88/92
; FILING DATE: 23-JAN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: COOPER, Iver P.
; REGISTRATION NUMBER: 28,005
; REFERENCE/DOCKET NUMBER: HANSSON-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 857 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO

;; ORIGINAL SOURCE:
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: 45...593
;; FEATURE:
;; NAME/KEY: mat_peptide
;; LOCATION: 45...593
;; FEATURE:
;; NAME/KEY: sig_peptide
;; LOCATION: 45...104
;; FEATURE:
;; NAME/KEY: 5'UTR
;; LOCATION: 13...44
;; FEATURE:
;; NAME/KEY: 3'UTR
;; LOCATION: 594...848
US-08-256-799-1

Query Match 12.8%; Score 52; DB 4; Length 857;
Best Local Similarity 67.6%; Pred. No. 0.0086;
Matches 73; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 299 TTCGAGCCACTGTAATAATTTTGTAACTCAACAACAGATGCAATAGTTTAAATAAACTT 358
Db 741 TTCATGCCACATTCATATTTTGTATTCGACATAAAGCCAACTGATTCGCAAAAAA 800

QY 359 ATACITTAACCTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406
Db 801 AAAAAAATAA 848

RESULT 15
US-08-462-437-1
; Sequence 1, Application US/08462437
; Patent No. 6232094
; GENERAL INFORMATION:
; APPLICANT: HANSSON, Lennart
; APPLICANT: STROEMQVIST, Mats
; APPLICANT: BERGSTROEM, Sven
; APPLICANT: HERNELL, Olle
; APPLICANT: TOERNELL, Jan
; TITLE OF INVENTION: DNA ENCODING KAPPA-CASEIN, PROCESS
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/462,437
; FILING DATE: 05-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DK 88/92
; FILING DATE: 23-JAN-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: COOPER, Iver P.
; REGISTRATION NUMBER: 28,005
; REFERENCE/DOCKET NUMBER: HANSSON-1A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:

Tue May 6 09:32:27 2003

LENGTH: 857 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: 45..593
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 45..593
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 45..104
FEATURE:
NAME/KEY: 5'UTR
LOCATION: 13..44
FEATURE:
NAME/KEY: 3'UTR
LOCATION: 594..848
US-08-462-437-1

Query Match 12.8%; Score 52; DB 4; Length 857;
Best Local Similarity 67.6%; Pred. No. 0.0086;
Matches 73; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
QY 299 TTCGAGCCATCTGAATAATTTTGTAACTAACAACAGATGCAATAGTTTAAATAAATT 358
||| ||||| ||||| ||| | ||||| ||||| ||| ||| ||| |||
Db 741 TTCATGCCACATTCAATATTTTGATTCTTGCACAATAAAGCCCACTGATTGCAAAAAA 800
QY 359 ATACTTAACTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 406
| | ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 801 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 848

Search completed: May 5, 2003, 20:26:55
Job time : 54 secs

GenCore version 5.1.5
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 5, 2003, 19:53:13 : Search time 143 Seconds
(without alignments)
3354.812 Million cell updates/sec

Title: US-09-829-481-3
Perfect score: 406
Sequence: 1 ctctactacaatcactaagt.....aaaaaaaaaaaaaaaaaaaa 406

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 746064 seqs, 590810554 residues
Total number of hits satisfying chosen parameters: 1492128

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_applications_NA.*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq.*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq.*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq.*
9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq.*
11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq.*
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	406	100.0	406	10	US-09-829-481-3
2	76	18.7	386	10	US-09-829-481-5
3	55.2	13.6	325	9	US-10-091-483-30
4	55.2	13.6	325	10	US-09-764-846-30
5	55.2	13.6	621	9	US-10-091-483-105
6	55.2	13.6	621	10	US-09-764-846-105
7	54.6	13.4	351	10	US-09-829-481-7
8	54.6	13.4	425	10	US-09-834-975-451
9	53.8	13.3	380	10	US-09-960-352-9335
10	53.8	13.3	461	10	US-09-829-481-1
11	53.6	13.2	471	9	US-09-918-995-14052
12	53.2	13.1	236	10	US-09-960-352-12183
13	53	13.1	397	10	US-09-960-352-13784
14	52.8	13.0	393	10	US-09-960-352-13971
15	52.8	13.0	454	9	US-09-918-995-13971
16	52.6	13.0	3293	10	US-09-764-864-123
17	52.4	12.9	958	9	US-10-126-139-5
18	52.4	12.9	958	9	US-10-126-798-5
19	52.4	12.9	958	10	US-09-803-211-5

c	20	52.4	12.9	958	10	US-09-746-485A-5	Sequence 5, Appli
	21	52.2	12.9	368	10	US-09-834-975-47	Sequence 47, Appli
	22	52.2	12.9	426	9	US-09-918-995-17732	Sequence 17732, A
	23	52.2	12.9	432	9	US-09-918-995-13651	Sequence 13651, A
	24	52.2	12.9	1387	9	US-10-091-483-113	Sequence 113, App
	25	52.2	12.9	1387	10	US-09-764-846-113	Sequence 113, App
	26	52.2	12.9	3957	10	US-09-764-853-77	Sequence 77, Appl
	27	52	12.8	857	9	US-09-954-531-977	Sequence 70, Appl
	28	52	12.8	1499	9	US-10-114-893-70	Sequence 15258, A
	29	51.8	12.8	219	10	US-09-878-574-15258	Sequence 93, Appl
	30	51.8	12.8	1457	9	US-09-989-920-93	Sequence 8, Appli
	31	51.8	12.8	4000	9	US-09-981-353-8	Sequence 6976, Ap
c	32	51.6	12.7	337	10	US-09-960-352-6976	Sequence 3371, Ap
c	33	51.6	12.7	347	10	US-09-960-352-3371	Sequence 196, App
c	34	51.4	12.7	1772	9	US-10-102-806-196	Sequence 5559, Ap
c	35	51	12.6	358	10	US-09-960-352-5559	Sequence 15014, A
c	36	50.8	12.5	375	10	US-09-960-352-15014	Sequence 53, Appl
c	37	50.8	12.5	396	9	US-09-970-966-53	Sequence 53, Appl
c	38	50.8	12.5	396	10	US-09-825-294-53	Sequence 53, Appl
	39	50.8	12.5	1001	9	US-09-986-480-93	Sequence 5, Appli
	40	50.6	12.5	1411	9	US-10-000-273-5	Sequence 39, Appl
	41	50.6	12.5	3239	9	US-10-174-363-39	Sequence 13, Appl
	42	50.4	12.4	2511	9	US-10-091-752A-13	Sequence 668, App
c	43	50.2	12.4	285	10	US-09-834-975-668	Sequence 1243, Ap
	44	50.2	12.4	291	10	US-09-960-352-1243	Sequence 7994, Ap
	45	50.2	12.4	373	10	US-09-960-352-7994	

ALIGNMENTS

RESULT 1
US-09-829-481-3
; Sequence 3, Application US/09829481
; Patent No. US20020069427A1
; GENERAL INFORMATION:
; APPLICANT: Presnail, James
; APPLICANT: Wong, Zude
; TITLE OF INVENTION: Arthropod Defensins
; FILE REFERENCE: BB1441 US NA
; CURRENT APPLICATION NUMBER: US/09/829,481
; CURRENT FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: 60/197279
; PRIOR FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 3
; LENGTH: 406
; TYPE: DNA
; ORGANISM: Vaejovis carolinianus
US-09-829-481-3

Query Match	100.0%	Score 406;	DB 10;	Length 406;
Best Local Similarity	100.0%;	Pred. No. 1.8e-74;		
Matches 406;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	CTCTACTACAATCACTAAGTTCTTTCTCCACTCAGCTTCAAGAATGAATCCATAGCTAT	60	
Db	1	CTCTACTACAATCACTAAGTTCTTTCTCCACTCAGCTTCAAGAATGAATCCATAGCTAT	60	
Qy	61	TATTTTCATCCTTCTTGTTCCTCTGTATTTTGGAGATGGGATTTGTAGAACTGGTTT	120	
Db	61	TATTTTCATCCTTCTTGTTCCTCTGTATTTTGGAGATGGGATTTGTAGAACTGGTTT	120	
Qy	121	TGGATGTCCTTTTAAATCAGCAAAATGCCATAGACATTTGCAAAAGTATTCCTCGTAGAGG	180	
Db	121	TGGATGTCCTTTTAAATCAGCAAAATGCCATAGACATTTGCAAAAGTATTCCTCGTAGAGG	180	
Qy	181	AGGCTTTTGCAGAGGAACCTTTTCAGGACAACCTGCTTTCCTATAGGTGAAATCCGATTT	240	
Db	181	AGGCTTTTGCAGAGGAACCTTTTCAGGACAACCTGCTTTCCTATAGGTGAAATCCGATTT	240	

QY 241 ATTGTCATAATGGAGACCGTTTTTATTGAATATCGTCAGTTTCCAAATTAAGTCATTT 300
Db 241 ATTGTCATAATGGAGACCGTTTTTATTGAATATCGTCAGTTTCCAAATTAAGTCATTT 300
QY 301 CGAGCCATACTGAATAATTTTCTAATCTAACACAGATGCAATAGTTTAAATAAACTTAT 360
Db 301 CGAGCCATACTGAATAATTTTCTAATCTAACACAGATGCAATAGTTTAAATAAACTTAT 360
QY 361 ACTTAACCTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406
Db 361 ACTTAACCTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406

RESULT 2

US-09-829-481-5

; Sequence 5, Application US/09829481
; Patent No. US20020069427A1
; GENERAL INFORMATION:
; APPLICANT: Presnail, James
; APPLICANT: Weng, Zude
; APPLICANT: Wong, James
; TITLE OF INVENTION: Arthropod Defensins
; FILE REFERENCE: BBI441 US NA
; CURRENT APPLICATION NUMBER: US/09/829,481
; CURRENT FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: 60/197279
; PRIOR FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 5
; LENGTH: 386
; TYPE: DNA
; ORGANISM: Argiope sp.
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (351)
; NAME/KEY: unsure
; LOCATION: (364)..(365)
; NAME/KEY: unsure
; LOCATION: (386)
US-09-829-481-5

Query Match 18.7%; Score 76; DB 10; Length 386;
Best Local Similarity 54.4%; Pred. No. 9e-07;
Matches 178; Conservative 0; Mismatches 141; Indels 8; Gaps 1;

QY 78 TTGCTTCTGTATTTGGAGGATGGATTGTAGAGCTGTTTTGGATGCCCTTTAATG 137
Db 45 TAGTCGCTGTGCTTTTGCCACAGTGGCCGTGGAAGCTGTTTCGGCTGCCCTTCGACC 104
QY 138 CAGGAAATGCATAGACATTCGAAAAGTATTCGCTGAGAGGAGGCTTTTTCGACAGGAA 197
Db 105 AGATGCAGTGTCAATCATTTGAGGAGGATCAATACAGGGAGGATCTGCACCACT 164
QY 198 CTTTCAGACAACTCGGTTTGTATAGGTGAAATCCGATTTATTTGCCATAATGGAGA 257
Db 165 TATTCAAGCGCACCTGCAAGTGTACGGATGATCACCCCTCCCTCTCAGCAGAGGC 224
QY 258 CCGCTTTTATTGAATATCGTCAGTTTCCCAATTAAGTCATTTTCGAGCCATCTGAATA 317
Db 225 CCACACCTT-----TCATTGACATCCGATTCGGATTTTCCAAATGCAAAATGTAACA 276
QY 318 TTTTGTATCTAACACAGATGCAATAGTTTAAATAAATATATCTTAACCTTTTAAAAA 377
Db 277 CATGATGAATTTGATGCAAGTGCCTTAATTTAATAAATTTGATTTTACATTTTAAAAA 336
QY 378 AAAAAAATAAAAAAAAAAAAAAAAAAAAAA 404
Db 337 AAAAAAATAAAAAAAAAAAAAAAAAAAAAA 363

RESULT 3

US-10-091-483-30

; Sequence 105, Application US/10091483

; Sequence 30, Application US/10091483
; Publication No. US20030049650A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT212C1
; CURRENT APPLICATION NUMBER: US/10/091,483
; CURRENT FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 348
; Prior Application removed - See File Wrapper or Palm
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 30
; LENGTH: 325
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-091-483-30

Query Match 13.6%; Score 55.2; DB 9; Length 325;
Best Local Similarity 60.8%; Pred. No. 0.016;
Matches 90; Conservative 0; Mismatches 58; Indels 0; Gaps 0;
QY 259 CCGTTTTTATTGAATATCGTCAGTTTCCAAATTAAGTCATTTTCGAGCCATCTGAATAT 318
Db 104 CCTTTATAATTCACATAAATAAAGCATCTATTAGTGTCTGATTTAGGAATGTAATAATGAT 163
QY 319 TTTGTAATCTTAACAACAGATGCAATAGTTTAAATAAACTTATATCTTAACCTTTTAAAAA 378
Db 164 TCTGTATTAAATGTTAAATAAGATTATCTATTGCAAAAAGATATTTCAAAACCTAAAAA 223
QY 379 AAAAAAATAAAAAAAAAAAAAAAAAAAAAA 406
Db 224 AAAAAAATAAAAAAAAAAAAAAAAAAAAAA 251

RESULT 4

US-09-764-846-30

; Sequence 30, Application US/09764846
; Patent No. US20020102638A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT212
; CURRENT APPLICATION NUMBER: US/09/764,846
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 30
; LENGTH: 325
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-846-30

Query Match 13.6%; Score 55.2; DB 10; Length 325;
Best Local Similarity 60.8%; Pred. No. 0.016;
Matches 90; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

QY 259 CCGTTTTTATTGAATATCGTCAGTTTCCAAATTAAGTCATTTTCGAGCCATCTGAATAT 318
Db 104 CCTTTATAATTCACATAAATAAAGCATCTATTAGTGTCTGATTTAGGAATGTAATAATGAT 163
QY 319 TTTGTAATCTTAACAACAGATGCAATAGTTTAAATAAACTTATATCTTAACCTTTTAAAAA 378
Db 164 TCTGTATTAAATGTTAAATAAGATTATCTATTGCAAAAAGATATTTCAAAACCTAAAAA 223
QY 379 AAAAAAATAAAAAAAAAAAAAAAAAAAAAA 406
Db 224 AAAAAAATAAAAAAAAAAAAAAAAAAAAAA 251

RESULT 5

US-10-091-483-105

; Sequence 105, Application US/10091483

	Query Match	13.3%	Score 53.8	DB 10	Length 380
	Best Local Similarity	60.7%	Pred. No. 0.032		
	Matches 88	Conservative 0	Mismatches 57	Indels 0	Gaps 0
QY	262	TTTTTAAATATCGTCAGTTTCCAAATTAAGACTCATTTGGAGCCATCTACTGAATAATTTT	321		
Db	207	TTTTTTTAAATATCTCTTTTTTTTTTTTTTTTTTTTTTAAAAAATTTTTTAAACAAATAT	148		
QY	322	GTAACTCTAAACAAGATGCAATAGTTTAAATAAACTTATACTTAACTTTAAAAAATAAAA	381		

```

RESULT 11
US-09-918-995-14052
; Sequence 14052, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FROM VARIOUS CDNA LIBRARIES
; FILE REFERENCE: 204111-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0

```


GenCore version 5.1.5
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 5, 2003, 18:05:58 ; Search time 1569 seconds
(without alignments)
4190.802 Million cell updates/sec

Title: US-09-829-481-3

Perfect score: 406

Sequence:

1 ctcctactacatcactaagt.....aaaaaaaaaaaaaaaaaaaaa 406

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- EST:*
- 1: em_estba:*
 - 2: em_esthum:*
 - 3: em_estin:*
 - 4: em_estmu:*
 - 5: em_estov:*
 - 6: em_estpl:*
 - 7: em_estro:*
 - 8: em_htc:*
 - 9: gb_est1:*
 - 10: gb_est2:*
 - 11: gb_htc:*
 - 12: gb_est3:*
 - 13: gb_est4:*
 - 14: gb_est5:*
 - 15: em_estfun:*
 - 16: em_estom:*
 - 17: gb_gss:*
 - 18: em_gss_hum:*
 - 19: em_gss_inv:*
 - 20: em_gss_pln:*
 - 21: em_gss_vrt:*
 - 22: em_gss_fun:*
 - 23: em_gss_mam:*
 - 24: em_gss_mus:*
 - 25: em_gss_other:*
 - 26: em_gss_pro:*
 - 27: em_gss_rod:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	62.4	15.4	355	BI323340	BI323340 kt69h08.y
2	62.2	15.3	328	BM154538	BM154538 fv86c10.y
3	62.2	15.3	329	AL513719	AL513719 AL513719
4	61.8	15.2	376	BM522187	BM522187 ESS00725
5	61.2	15.1	759	CNS060XV	AL411257 T7 end of
6	60.8	15.0	181	AI529496	AI529496 va52d02.y

7	60.2	14.8	470	13	BG928759
8	60.2	14.8	605	13	BG928759
9	60.2	14.8	1101	17	CNS0021J
10	59.8	14.7	284	13	BI745513
c	59.8	14.7	503	9	AL513809
11	59.2	14.6	186	14	C84834
12	59.2	14.6	186	14	C84834
13	59	14.5	326	13	BM154844
14	59	14.5	329	9	AL513719
15	59	14.5	424	13	BM263207
16	58.8	14.5	455	13	BI073560
17	58.2	14.3	265	14	C91235
18	58.2	14.3	631	10	AV729934
19	58	14.3	1182	14	BM906534
20	57.8	14.2	427	14	BM906534
21	57.8	14.2	787	17	CNS049YD
22	57.8	14.2	1043	17	CNS0145P
c	57.8	14.2	1101	17	CNS017V2
23	57.6	14.2	256	14	BM966539
24	57.6	14.2	256	14	BM966539
25	57.4	14.1	348	13	BM186008
26	57.4	14.1	366	10	AW101676
27	57.4	14.1	425	9	AL514791
28	57.4	14.1	943	12	BG392408
29	57.2	14.1	191	14	BQ637334
30	57.2	14.1	453	10	BE578190
31	57.2	14.1	866	13	BM015504
32	57.2	14.1	887	12	BG166263
33	57.2	14.1	924	17	CNS07A5L
34	57	14.0	438	9	AL634908
35	56.8	14.0	205	10	BE666934
36	56.8	14.0	481	9	AU037107
37	56.6	13.9	633	10	AW645696
38	56.4	13.9	166	14	BQ421843
39	56.4	13.9	209	14	BM882890
40	56.4	13.9	298	13	BI703836
41	56.4	13.9	352	13	BM154632
42	56.4	13.9	372	13	BM089774
c	56.4	13.9	626	9	AL513937
43	56.4	13.9	784	9	AL048397
c	56.4	13.9	784	9	AL048397
44	56.4	13.9	784	9	AL048397
45	56.2	13.8	349	9	AU033553

ALIGNMENTS

RESULT 1	BI323340	355 bp	mRNA	linear	EST 30-JUL-2001
LOCUS	BI323340	355 bp	mRNA	linear	EST 30-JUL-2001
DEFINITION	Strongyloides ratti L2 pAMPI v1 Chiapelli McCarter				
	Strongyloides ratti cDNA 5' similar to TR:Q18611 Q18611 CODED FOR				
	By C. ELEGANS CDNA CEESK63F. [1] ;contains element MER30 repetitive				
	element ; , mRNA sequence.				
ACCESSION	BI323340				
VERSION	BI323340.1				GI:15002526
KEYWORDS	EST				
SOURCE	Strongyloides ratti				
ORGANISM	Strongyloides ratti				
REFERENCE	Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida;				
AUTHORS	Panagrolaimoidea; Strongyloidea; Strongyloidea; Strongyloidea;				
	1 (bases 1 to 355)				
	McCarte, J., Clifton, S., Chiapelli, B., Pape, D., Martin, J., Wylie, T.,				
	Dante, M., Marra, M., Hillier, L., Kucaba, T., Theising, B., Bowers, Y.,				
	Gibbons, M., Ritter, E., Bennett, J., Franklin, C., Tsagaris, R.,				
	Ronko, I., Kennedy, S., Maguire, L., Beck, C., Underwood, K., Steptoe				
	, M., Allen, M., Person, B., Swaller, T., Harvey, N., Schurk, R., Kohn, S.				
	, Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and				
	Wilson, R.				
TITLE	The Washington Univ. Nematode EST Project, 1999				
JOURNAL	Unpublished (1999)				
COMMENT	Contact: McCarter JP				
	The Washington Univ. Nematode EST Project, 1999				
	Washington University School of Medicine				
	4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA				
	Tel: 314 286 1800				

Email: jens.mattsson@sva.se
Similar to gi|1877580|dbj|BAA97098.1| (AP002460) gene_id:F1D9.26
unknown protein [Arabidopsis thaliana]
seq primer: T3 primer
High quality sequence stop: 376.
Location/Qualifiers
1..376
/organism="Sarcoptes scabiei"
/db_xref="taxon:52283"
/clone_lib="SAS0859"
/note="The Sarcoptes scabiei cDNA library constructed by Jens G Mattsson. cDNAs were synthesized from poly(A)+ RNA by oligo d(T) priming, size-selected and directionally cloned into the Uni-ZAP lambda vector (stratagene). The primary library was amplified on XLI-Blue MRF' cells." 97 t 6 others
165 a 48 c 60 g
Ch 15.2%; Score 61.8; DB 13; Length 376;
1 Similarity 57.5%; Pred. No. 9;
1111; Conservative 0; Mismatches 82; Indels 0; Gaps 0;
TTTTTGTCTAGTGTAATCCGATTATTTCGCATAATGGAGACCGGTTTTTTATTGAAT 273
111 111 111 111 111 111 111 111 111 111 111 111 111 111 111 111
GATTCTGCAATATATAAATCTGATTAAATTTAAACTCTAAGACACTGATTCACCTGGGT 200
CTCGTCGACGTTTCCATTAAAGTCATTTTCAGCCCATCTGAATAATTTTGTAAATCTTAACAA 333
111 111 111 111 111 111 111 111 111 111 111 111 111 111 111 111
TTTTGTGAATTTGTTTTTTCAAATCGGTAATAAATTTCTCGAAACTATTTTCGAAATTAACAAA 260
AGAGTCGAATAGTTTAAATTAACCTTATACTTAACTTTTAAAAAATAAAAAAAAAAAAAA 393
11
TATTTTAAAGATTAATAA 320
AAAAAAAAAAAAA 406
1111111111
AAAAAAAAAAAAA 333
CNS06QXV 759 bp DNA linear GSS 05-JUL-2001
T7 end of clone AW0AA009H09 of library AW0AA from strain CLIB 89 of
Yarrowia lipolytica, genomic survey sequence.
AL411257
AL411257.1 GI:12180512
GSS
Yarrowia lipolytica.
Yarrowia lipolytica
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Dipodascaceae; Yarrowia.
1 (bases 1 to 759)
Souciet,J.L., Aigle,M., Artiguenave,F., Blandin,G.,
Bolotin-Fukuhara,M., Bon,E., Brottier,P., Casaregola,S.,
de-Montigny,J., Dujon,B., Durren,P., Lepingle,A., Liorente,B.,
Malpertuy,A., Neuveglise,C., Ozier-Kalogeropoulos,O., Potier,S.,
Maurin,W., Tekata,F., Toffano-Nioche,C., Wesolowski-Louvel,M.,
Wincker,P. and Weissenbach,J.
Genomic exploration of the hemiascomycetous yeasts: 1. A set of
yeast species for molecular evolution studies
FEBS Lett. 487 (1), 3-12 (2000)
20584711
11152876
2 (bases 1 to 759)
Casaregola,S., Neuveglise,C., Lepingle,A., Bon,E., Feynerol,C.,
Artiguenave,F., Wincker,P. and Gaillardin,C.
Genomic exploration of the hemiascomycetous yeasts: 17. Yarrowia
lipolytica
FEBS Lett. 487 (1), 95-100 (2000)
20584727
11152892

```

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
3 (bases 1 to 759)
Genoscope.
Direct Submission
Submitted (07-SEP-2000) Genoscope - Centre National de Sequencage,
2 rue Gaston Cremieux, CP 5706, 91057 EVRY cedex, FRANCE. (E-mail :
sequef@genoscope.cns.fr - web : www.genoscope.cns.fr)
This GSS is part of a random genomic sequencing program of thirteen
yeast species: Saccharomyces bayanus var. uvarum, Saccharomyces
exiguus, Saccharomyces servazzii, Zygosaccharomyces rouxii,
Saccharomyces kluyveri, Kluyveromyces thermotolerans, Kluyveromyces
lactis var. lactis, Kluyveromyces marxianus var. marxianus, Pichia
angusta, Debaryomyces hansenii var. hansenii, Pichia sorbitophila,
Candida tropicalis and Yarrowia lipolytica. Genomic inserts of 3 to
5 kb were prepared and both extremities were sequenced. See
keywords for description of this sequence and for the sequence of
the other extremity of this insert.
FEATURES
source
Location/Qualifiers
1..759
/organism="Yarrowia lipolytica"
/strain="CLIB 89"
/db_xref="taxon:4952"
/clone="AW0AA009H09"
/clone_lib="AW0AA"
/note="end : T7"
BASE COUNT
356 a 53 c 51 g 206 t 93 others
ORIGIN
Query Match 15.1%; Score 61.2; DB 17; Length 759;
Best Local Similarity 49.4%; Pred. No. 6.8;
Matches 84; Conservative 24; Mismatches 62; Indels 0; Gaps 0;
Qy 237 ATTATTTGCCAATATGAGACCCGTTTATTGATATCGTCAGTTTCCCAATTAAGTC 296
||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
Db 155 ATWTATATWATWATATATATATATATATATATATATATATATATATATATAT 214
||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
Qy 297 ATTTGCGCCATACGTAATATTTTGTATCTAACACAGATGCAATAGTTTAAATAAAC 356
||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
Db 215 ATWTATATWATWATWATWATWATWATWATWATWATWATWATWATWATWATWAT 274
||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
Qy 357 TTATCTTAACTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406
||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
Db 275 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 324
||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||

RESULT 6
AI529496 181 bp mRNA linear EST 18-MAR-1999
LOCUS
DEFINITION
AI529496 va52g02.y1 Soares mouse 3NME12 5 Mus musculus cDNA clone
IMAGE:734979 5', mRNA sequence.
ACCESSION
AI529496
VERSION
AI529496.1 GI:4443631
KEYWORDS
EST.
SOURCE
house mouse.
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 181)
Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wylie,T.,
Underwood,K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., Person
,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Ritter
,E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R.,
Waterston,R. and Wilson,R.
The WashU-NCI Mouse EST Project 1999
Unpublished (1999)
Contact: Marra M/WashU-NCI Mouse EST Project 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:452027

```

```

Seq primer: -40RP from Gibco
High quality sequence stop: 91.
Location/Qualifiers
1..181
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="IMAGE:734979"
/clone_lib="Soares mouse 3NME12 5"
/sex="unknown"
/tissue_type="fetus"
/dev_stage="12.5dpc total fetus"
/ldb_host="DHL0B"
/note="Organ: whole fetus; Vector: p7T3D-Pac (Pharmacia)
with a modified polylinker; Site.1: Not I; Site.2: Eco RI;
1st strand cDNA was primed with a Not I - oligo(dT) primer
[5' TGTTACCAATCTCAAGTGGAGCGCGCTTATTTTTTTTTTTTTTTT
3'], on total mouse RNA [provided by Minoru Ko, Wayne
State Univ.]; double-stranded cDNA was ligated to Eco RI
adaptors (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of the modified pT7f3 vector.
Library went through one round of normalization, and was
constructed by Bento Soares and M. Fatima Bonaldo."
BASE COUNT
110 a 19 c 18 g 34 t
ORIGIN
Query Match 15.0%; Score 60.8; DB 9; Length 181;
Best Local Similarity 80.7%; Pred. No. 20;
Matches 71; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
Qy 319 TTGTGAATCTAACACACATGCAATAGTTTAAATAAATCTTACTTAACTTTTAAAAA 378
||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
Db 54 TTTGAACTTTCACAGAGATGTAATATTTGATTAATAAATCTTACCATAAAAAA 113
||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
Qy 379 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 406
||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||
Db 114 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 141
||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :||

RESULT 7
BG928759 470 bp mRNA linear EST 06-NOV-2001
LOCUS
DEFINITION
HNC56-1-C12.R HNC (Human Normal Cartilage) Homo sapiens cDNA, mRNA
sequence.
ACCESSION
BG928759
VERSION
BG928759.1 GI:14323282
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 470)
Kumar,S., Connor,J.R., Dodds,R.A., Halsey,W., Van Horn,M., Mao,J.,
Sathe,G., Mul,P., Agarwal,P., Badger,A.M., Lee,J.C., Gowen,M. and
Lark,M.W.
Identification and initial characterization of 5000 expressed
sequenced tags (ESTs) each from adult human normal and
osteoarthritic cartilage cDNA libraries
Osteoarthritis. Cartil. 9 (7), 641-653 (2001)
21482651
Contact: Sanjay Kumar
UW2109
GlaxoSmithKline
709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406, USA
Tel: 610-270-7245
Fax: 610-270-5598
Email: sanjay_kumar-legsk.com
Seq primer: T7.
Location/Qualifiers
1..470
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="HNC (Human Normal Cartilage)"
FEATURES
source

```

QY	322	GTAATCTAACACAGATGCAGTAGCTTTAAATAAACTTTATACTTTAACTTTTAAAAA	381
Db	265	GCTGCGCAAA	324
QY	382	AAAAAAAAAAAAAAAAAAAAAAAAAAAA 406	
Db	325	AAAAAAAAAAAAAAAAAAAAAAAAAAAA 349	
RESULT 9			
CNS0021J			
LOCUS			
DEFINITION			
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
COMMENT			
FEATURES			
source			
BASE COUNT			
ORIGIN			
Query Match			
Best Local Similarity			
Matches			
QY	230	AAATCCGATTTATTTGGCATATATCGAGACCGCTTTTATTGTAATATCGTACGTTTCCAAAT	289
Db	666	AWAAATTTTATTTATWATWAAATWAAATTTTAAAAATTTTATTTTATTTTAAAAA	725
QY	290	TAAATGCTATTCGAGCCACTACTGAAATAATTTTGTAATCTAACACAGATGCAATAGTTTA	349
Db	726	TTTATTATTTTAAAAATWATWATWAAATTTTATTTTATTTTATTTTATTTTAAAAA	785
QY	350	AATAAATCTTACTACTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	406
Db	786	AATTTAAATTTTAAATTTAAAAAAAAAAAAAAAAAAAAAAAAAATAAAAAATAAAAAA	842
RESULT 10			
B174513			

COMMENT

Contact: Hideko Urushihara
Institute of Biological Sciences
University of Tsukuba
1-1-1 Tennouda, Tsukuba, Ibaraki 305-8572, Japan
Tel: 81-298-53-4664
Fax: 81-298-53-6614
Email: hideko@biol.tsukuba.ac.jp
PROJECT = 'dictyostellum discoideum cdna project'

FEATURES	SOURCE
1. <i>General</i>	
2. <i>Specific</i>	
3. <i>Other</i>	
4. <i>Other</i>	
5. <i>Other</i>	
6. <i>Other</i>	
7. <i>Other</i>	
8. <i>Other</i>	
9. <i>Other</i>	
10. <i>Other</i>	
11. <i>Other</i>	
12. <i>Other</i>	
13. <i>Other</i>	
14. <i>Other</i>	
15. <i>Other</i>	
16. <i>Other</i>	
17. <i>Other</i>	
18. <i>Other</i>	
19. <i>Other</i>	
20. <i>Other</i>	
21. <i>Other</i>	
22. <i>Other</i>	
23. <i>Other</i>	
24. <i>Other</i>	
25. <i>Other</i>	
26. <i>Other</i>	
27. <i>Other</i>	
28. <i>Other</i>	
29. <i>Other</i>	
30. <i>Other</i>	
31. <i>Other</i>	
32. <i>Other</i>	
33. <i>Other</i>	
34. <i>Other</i>	
35. <i>Other</i>	
36. <i>Other</i>	
37. <i>Other</i>	
38. <i>Other</i>	
39. <i>Other</i>	
40. <i>Other</i>	
41. <i>Other</i>	
42. <i>Other</i>	
43. <i>Other</i>	
44. <i>Other</i>	
45. <i>Other</i>	
46. <i>Other</i>	
47. <i>Other</i>	
48. <i>Other</i>	
49. <i>Other</i>	
50. <i>Other</i>	
51. <i>Other</i>	
52. <i>Other</i>	
53. <i>Other</i>	
54. <i>Other</i>	
55. <i>Other</i>	
56. <i>Other</i>	
57. <i>Other</i>	
58. <i>Other</i>	
59. <i>Other</i>	
60. <i>Other</i>	
61. <i>Other</i>	
62. <i>Other</i>	
63. <i>Other</i>	
64. <i>Other</i>	
65. <i>Other</i>	
66. <i>Other</i>	
67. <i>Other</i>	
68. <i>Other</i>	
69. <i>Other</i>	
70. <i>Other</i>	
71. <i>Other</i>	
72. <i>Other</i>	
73. <i>Other</i>	
74. <i>Other</i>	
75. <i>Other</i>	
76. <i>Other</i>	
77. <i>Other</i>	
78. <i>Other</i>	
79. <i>Other</i>	
80. <i>Other</i>	
81. <i>Other</i>	
82. <i>Other</i>	
83. <i>Other</i>	
84. <i>Other</i>	
85. <i>Other</i>	
86. <i>Other</i>	
87. <i>Other</i>	
88. <i>Other</i>	
89. <i>Other</i>	
90. <i>Other</i>	
91. <i>Other</i>	
92. <i>Other</i>	
93. <i>Other</i>	
94. <i>Other</i>	
95. <i>Other</i>	
96. <i>Other</i>	
97. <i>Other</i>	
98. <i>Other</i>	
99. <i>Other</i>	
100. <i>Other</i>	

```
location/Qualifiers
1
1 186
/organism="Dictyostellium discoideum"
/strain="AX4"
/db_xref="taxon:44689"
/clone="SSG726"
/clone_lib="dictyostellium discoideum SS (H.Urushihara)"
/db_xref="valus"
```

Query Match	14.6%	Score 59.2;	DB 14;	Length 186;
Best Local Similarity	76.0%	Pred. No. 33;		
Matches 73; Conservative	0;	Mismatches 23;	Indels 0;	Gaps 0;

RESULT 13
BM154844

LOCUS	BML154844	326 bp	mRNA	linear	EST 03-DEC-2001
DEFINITION	f990c01.y1 zebrafish SJD adult male II Danio rerio cDNA clone 5544193 5', mRNA sequence.				

KEYWORDS
SOURCE

n.
rio
o:
Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Myxini; Neopterygii; Teleostei; Osteichthyes; Cypriniformes
idae; Danio.
s 1 to 326)

TITLE	JOURNAL	COMMENT
1. The Role of the Teacher in the Classroom	Journal of Educational Research	1980, Vol. 83, No. 1, pp. 1-10
2. The Impact of Technology on Education	Journal of Educational Research	1980, Vol. 83, No. 2, pp. 11-20
3. The Importance of Parental Involvement	Journal of Educational Research	1980, Vol. 83, No. 3, pp. 21-30
4. The Effect of Teacher Expectations on Student Achievement	Journal of Educational Research	1980, Vol. 83, No. 4, pp. 31-40
5. The Role of the School in the Community	Journal of Educational Research	1980, Vol. 83, No. 5, pp. 41-50
6. The Impact of Teacher Education on Classroom Practice	Journal of Educational Research	1980, Vol. 83, No. 6, pp. 51-60
7. The Importance of Professional Development	Journal of Educational Research	1980, Vol. 83, No. 7, pp. 61-70
8. The Effect of Teacher Attitudes on Student Behavior	Journal of Educational Research	1980, Vol. 83, No. 8, pp. 71-80
9. The Role of the School in the Development of the Individual	Journal of Educational Research	1980, Vol. 83, No. 9, pp. 81-90
10. The Impact of Teacher Research on Classroom Practice	Journal of Educational Research	1980, Vol. 83, No. 10, pp. 91-100

on, R.
 Parasitish EST Project 1998
 ed (1998)
 Stephen L. Johnson
 on University School of Medicine
 State Park Parkway, Box 8501, St. Louis, MO 63108, USA
 286 1800
 286 1810

FEATURES
SOUND

CONTACT	Contact: Genoscope Genoscope - Centre National de Sequencage BP 191 91006 EVRY cedex - France Email: seqref@genoscope.cns.fr , Web : www.genoscope.cns.fr .
FEATURES	Location/Qualifiers 1..329 /organism="Homo sapiens"
SOURCE	

```

/clone_lib="Zebrafish SJD adult male II"
/sex="male"
/tissue_type="whole body"
/lab_host="DH10B"
/notes="Vector: pMPL1; Site_1: EcoRI; Site_2: NotI; First
strand cDNA synthesis was primed using oligo-dT on
magnetic beads with an additional primer.
5'-ggcgcgctaatcagcagctacta-taggg-3'. Second strand
synthesis was a 3-cycle PCR using the primers
5'-ggcgctaatcagcagctactaag-3' and
5'-aacagctgttaacacgcagcagctactt-tttttttttt-3'. The
cDNA was subsequently amplified in a 7-cycle PCR with the
following primers: 5'-ggcgcgctaatcagcagctactaag-3' and
5'-aacagctgtt-aacacgcag. Deoxy-UWP adaptors were added in
a third PCR (5 cycles) and the primers
5'-caucacacuaucgcccgtaatcagcagctactaaggg-3' and
5'-caucacacuaacagcagctgttaacacgcagcagctac-3'. Ends were
treated with uracil DNA glycosylase and product with 3'
overhangs was annealed to complementary ends of pMPL1.
Insert can be excised using EcoRI and NotI. Library
constructed by Joe Barnes and Steve Johnson (Washington
University)."

```

UNIVERSITY).	
BASE COUNT	ORIGIN
190 a	32 c 37 g 67 t

Query Match	14.5%	Score 59;	DB 13;	Length 326;
Best Local Similarity	52.7%	Pred. No. 24:		

Qy 224 AGGTGAAAATCCGATTTTATTTGCCATAATGGAGACCCGTTTTTATTTGAATATCGTCAGTT 283

Db 135 TGGTATTATCATTTACTGTGTACAAAGGAGACACCTGTCTAATGTGGAAGTCAATA 194

Qy 284 TCCAAATTAAAGTCATTCGAGCCATACTGAATAATTTTGTAACTCAACAACAGATGCAAT 343

Db 195 AACATGAAAGACACATATGATGGAAAAAATAAAAAAAGAAAAAATAAAAAAATAAAAAA 254

Oy
344 AGTTTAAATAACTTATACCTTTTAAAAAAAAAAAAAAAAAAAAA 403
Db
255 AA 314

Qy 404 AAA 406
|||
Db 315 AAA 317

RESULT 14					
AL513719					
LOCUS	AL513719	329 bp	mRNA	linear	EST 13-FEB-2001
DEFINITION	AL513719 LTI_NFL006_PL2	Homo sapiens	cDNA clone	CL0BA007ZH01	3 prime, mRNA sequence.

